

ID		WBS	Task Name	Contact	Resource Initials	Duration
0			D0 Grid Production Computing Initiative	ahnlein		176 days
1		1	D0 Grid Production Architecture	AL		73 days
2		1.1	INPUT: Original architecture document v1.2	AL	AL	0 days
3		1.2	High-level Architecture Document: draft - APIs, component responsibilities	AL	ASB,AL	7 days
4		1.3	milestone: Draft High-level Architecture Document	AL	AL	0 days
5		1.4	High-level Architecture Document: Review	AL,3,RDK,ASB		5 days
6		1.5	High-level Architecture Document: Revised version	AL	AL	8 days
7		1.6	High-level Architecture Document: Approval - ASB	AL	RDK	4 days
8		1.7	High-level Architecture Document: Approval - VW	AL	RDK	1 day
9		1.8	MILE 7: D0 Grid Production Architecture document done	AL		0 days
10		2	Adjust Responsibilities among SamGrid, D0runjob, D0repro, automc tools	GG		160 days
11		2.1	INPUT: Review of D0runjob interface	PM	PM	0 days
12		2.2	Decouple D0runjob macro and SamGrid	GG		4 days
13		2.2.1	INPUT: Interface changes documented	GG	PM	0 days
14		2.2.2	Decouple D0runjob macro and SamGrid development work	GG	PL	1 day
15		2.2.3	Decoupling: MC Job Type: SamGrid Integration	GG	PM	3 days
16		2.3	Ability to store output at any stage on demand	GG		128 days
17		2.3.1	Store output from any stage: SamGrid development/integration	GG	PM	1 day
18		2.3.4	Store output from any stage: Production-level test	GG	JS	1 day
19		2.3.5	MILE 22: Store output from any stage of processing	GG		0 days
20		2.4	Start Prod via SAM Definition from Stage 2 of Prod: v1	GG		30 days
21		2.4.1	INPUT: Start Prod at Stage 2: D0runjob development	GG	PL	0 days
22		2.4.2	Start Prod at Stage 2: SamGrid development/integration	GG	PM	21 days
23		2.4.3	Start Prod at Stage 2: Production-level test	GG	JS	3 days
24		2.4.4	MILE 2: Start (MC) Production at Stage 2 - Working	GG		0 days
25		2.5	Error Recovery in Phased Processing	GG		35 days
26		2.5.1	Error Recovery: SamGrid development/integration	GG	PM	1 day
27		2.5.2	Error Recovery: Production-level test	GG	JS	5 days
28		2.5.3	milestone: Error Recovery in Phased Processing	GG		0 days
29		2.6	D0repro tools adapted to use Sam v7 request system	GG		128 days
30		2.6.1	D0repro tools adaptation: First 50% implementation	DW	DW	40 days
31		2.6.2	D0repro tools adaptation: Next 40% implementation	DW	DW	32 days
32		2.6.3	D0repro tools adaptation: Request impact on SamGrid and/or D0runjob	GG	RDK,GG	4 days
33		2.6.8	D0repro tools adaptation: Fix python interface to SAM request system	AL	SS	12 days
34		2.6.9	DEFER: D0repro tools adaptation: Final 10% implementation	DW	DW	0 days
35		2.6.4	D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App	GG	PM	14 days
36		2.6.10	D0repro tools adaptation: Define test dataset	GG	MD	1 day
37		2.6.5	DEFER: D0repro tools adaptation: Adjust D0runjob to use request system	GG	PL,PM	0 days
38		2.6.7	DEFER - MILE 14: D0repro-tools uses Sam v7 request system	GG		0 days
39		2.7	Resolve how to add production paths in future	GG		22 days
40		2.7.1	Generalization of Job Types according to I/O Characteristics	GG	PM	19 days
41		2.7.11	D0repro tools/Generalization changes: Production test	GG	MD	3 days

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42		2.7.6	D0repro tools/Generalization changes: MC Production test	GG	JS	3 days
43		2.7.2	Resolve how to add production paths in future: Document	GG	PM	2 days
44		2.7.3	Resolve how to add production paths in future: D0 Approval	GG	ASB	1 day
45		2.7.4	MILE 20: How to add production paths in future - resolved	GG		0 days
46	✓	2.8	Support testing v7/d0runjob/SamGrid functionality	GG		82 days
47	✓	2.8.1	Survey current understanding of testing procedures	GG	RDK	6 days
48	✓	2.8.2	D0GPCI FNAL testing meeting	GG		1 day
49	✓	2.8.3	Testing responsibilities, procedures proposal	GG	GG	12 days
50	✓	2.8.4	Agreement on Component and Integration testing	GG	GG,PL	8 days
51	✓	2.8.5	Evaluate how D0runjob should set up WN environment	GG	AB2	4 days
52	✓	2.8.6	D0runjob sets up its own environment	GG	PL	6 days
53	✓	2.8.7	Evaluate and sign-off on test facilities and procedures	GG	/,PL,DW,JS	5 days
54	✓	2.8.8	MILE 18: Support testing v7/d0runjob/SamGrid functionality	GG		0 days
55	📅	2.9	Start Prod via SAM Definition from Stage 2 of Prod: v2	GG		4 days
56		2.9.1	Start Prod at Stage 2: SamGrid notification=all bug fix	GG	PM	2 days
57		2.9.2	Start Prod at Stage 2: Production-level re-test	GG	JS	2 days
58		2.9.3	milestone: Start Prod at Stage 2 Ready for Production Release	GG		0 days
59	✓📅	2.10	Evaluate Extensions to Development	GG		6 days
60	✓📅	2.10.1	D0runjob/SamGrid Decoupling: Skim Job Type	GG		0 days
61	✓📅	2.10.3	D0runjob/SamGrid Decoupling: Merge Job Type	GG		0 days
62	✓📅	2.10.4	Start Prod via SAM Definition from Stage 3+ of Prod	GG		0 days
63	✓	2.10.5	Fabric interface no longer dependent on Job Type	GG		0 days
64	✓📅	2.10.6	All merge code into D0runjob	PL		0 days
65	✓	2.10.7	Write evaluation of extensions to development	GG	GG	6 days
66		2.11	MILE 26: Tools have defined API, testing responsibilities	GG		0 days
67	📅	3	Transition Operations Support from SamGrid Dev to Run2 Ops	GG,AL		165 days
68		3.1	Operations Documentation	AL		159 days
69	✓	3.1.1	Data Queues Doc	AL		67 days
70	✓	3.1.1.1	INPUT: Data Queues Doc: Recent Draft	AL	AB2	0 days
71	✓	3.1.1.2	Data Queues Doc: Feed-back, update	AL	AB3,AB2	5 days
72	✓	3.1.1.3	Data Queues Doc: Approve	AL	AL	5 days
73	✓	3.1.1.4	Data Queues Doc: Integrate into SamGrid Documentation	AL	DZ,AL	1 day
74	✓	3.1.1.5	milestone: Data Queues Doc: Completed	AL		0 days
75	✓	3.1.2	Forwarding Node Installation Doc	AL		68 days
76	✓	3.1.2.1	INPUT: Fwd Node Install Doc: Recent Draft	AL	DZ	0 days
77	✓📅	3.1.2.2	Fwd Node Install Doc: Hardware prep attempt	AL	SS	25 days
78	✓📅	3.1.2.3	Fwd Node Install Doc: Feed-back	AL	SS	5 days
79	✓	3.1.2.4	Fwd Node Install Doc: Integrate Dehong and Steve's documents	AL	DZ,SS	5 days
80	✓	3.1.2.5	Fwd Node Install Doc: Approve	AL	AL	1 day
81	✓	3.1.2.6	Fwd Node Install Doc: Integrate into SamGrid Installation Manual	AL	DZ	2 days
82	✓	3.1.2.7	milestone: Fwd Node Install Doc: Completed	AL		0 days
83	✓	3.1.3	Integrating SRM Storage with SAM Doc	GG		7 days

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84	✓	3.1.3.1	SRM with SAM Doc: Integrate into SamGrid Documentation	GG	AB2	7 days
85	✓	3.1.3.2	milestone: SRM with SAM Doc: Completed	GG		0 days
86	📅	3.1.4	Operations Policies Doc	AL		114 days
87	✓	3.1.4.1	Operations Policies doc: Draft	AL	AL	1 day
88	✓	3.1.4.2	Operations Policies doc: Review	AL	GG,RDK	5 days
89	✓	3.1.4.3	Operations Policies doc: Revised draft	AL	AL	12 days
90	✓	3.1.4.4	Operations Policies doc: Review, agreement	AL		7 days
91	✓	3.1.4.5	Operations Policies doc: Review version v1.0	AL	AL	8 days
92	✓	3.1.4.8	Operations Policies doc: Stakeholder Review	AL	RDK	9 days
93		3.1.4.9	Operations Policies doc: Release version v1.1	AL	AL	10 days
94		3.1.4.6	Operations Policies doc: Approve - CD, D0	AL	ASB,RDK	3 days
95		3.1.4.7	MILE 13: Grid Production Operations Policies doc done	AL		0 days
96		3.1.5	milestone: Operations Documentation completed	AL		0 days
97	✓	3.2	Operations Reduction and Transfer Planning	GG,AL		68 days
98	✓	3.2.1	Current Operations Description	GG		33 days
99	✓	3.2.1.1	INPUT: Write-up of operations issues	GG	GG	0 days
100	✓	3.2.1.2	Current Operations description: draft - level and causes	GG	GG	4 days
101	✓	3.2.1.3	Current Operations description: Review	GG	PM,RDK,AL	5 days
102	✓	3.2.1.4	Current Operations description: Revised version	GG	GG	2 days
103	✓	3.2.1.5	Current Operations description: Approve	GG	ASB	1 day
104	✓	3.2.1.6	milestone: Current Operations description	GG		0 days
105	✓	3.2.2	Future Operations Staffing Doc	AL		13 days
106	✓	3.2.2.1	INPUT: FY08 REX budget determined	RS	RS,AL	0 days
107	✓	3.2.2.2	Future Operations description: draft - acceptable load level and activities	AL	RS,AL	6 days
108	✓	3.2.2.3	Future Operations description: Review	AL	S,RDK,ASB	5 days
109	✓	3.2.2.4	Future Operations description: Approve	AL	ASB	2 days
110	✓	3.2.2.5	milestone: Future Operations description	AL		0 days
111	✓	3.2.3	Operations Reduction Plan: "Road To Operations"	GG		60 days
112	✓	3.2.3.1	INPUT: Operations Reduction plan: Monitoring, Alarms proposal	GG	AB2	0 days
113	✓	3.2.3.2	Operations Reduction plan: Overall draft	GG	GG	16 days
114	✓	3.2.3.3	Operations Reduction plan: Review	GG	SB,RDK,AL	5 days
115	✓	3.2.3.4	Operations Reduction plan: Revised version	GG	GG,AB2	10 days
116	✓	3.2.3.5	MILE 4: Operations Reduction plan: Working plan ready	GG		0 days
117	✓📅	3.2.3.6	Operations Reduction plan: Coordinate w/FEF	GG	GG	10 days
118	✓	3.2.3.7	Operations Reduction plan: Approve - CD, D0	GG	ASB,RDK	2 days
119	✓📅	3.2.3.8	milestone: Operations Reduction plan completed	GG		0 days
120	✓	3.2.4	milestone: Operations Reduction and Transfer Planning completed	GG		0 days
121	✓	3.3	Operations Transfer Execution	GG,AL		95 days
122	✓📅	3.3.1	Operations Transfer: Phase 1 (Checklist)	GG,AL		18 days
123	✓	3.3.1.1	SamGrid Requests to Sam Issue Tracker	GG,AL		2 days
124	✓	3.3.1.1.1	Request SamGrid Users to open tickets	GG,AL	GG	1 day
125	✓	3.3.1.1.2	Inform Sam shifters about handling SamGrid Requests	GG,AL	AL	1 day

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126	✓	3.3.1.1.3	milestone: SamGrid Requests to Sam Issue Tracker	GG,AL		0 days
127	✓	3.3.1.2	SamGrid Operations Checklist	GG		8 days
128	✓	3.3.1.2.1	Write-up checklist	GG	PM	1 day
129	✓	3.3.1.2.2	Review checklist	GG	GG,AL	3 days
130	✓	3.3.1.2.3	Revise checklist	GG	PM	3 days
131	✓	3.3.1.2.4	Checklist training, trial run	GG	PM,AL	0.5 days
132	✓	3.3.1.2.5	Fine-tune checklist per feed-back	GG	PM	0.5 days
133	✓	3.3.1.2.6	milestone: SamGrid Operations Checklist Transferred	GG		0 days
134	✓	3.3.1.3	Adapt Operations Checklist to Ops-oriented Format	AL	AL,GG	9 days
135	✓	3.3.1.3.1	Adapt to Ops-oriented format	AL	AL	5 days
136	✓	3.3.1.3.2	Review, sign-off by GG, AB2	AL	GG,AB2	4 days
137	✓	3.3.1.3.3	milestone: Adapt Operations Checklist to Ops-oriented Format	AL		0 days
138	✓	3.3.1.4	MILE 3: Manual Checklist - Phase 1/4 of Ops Transfer done	GG,AL		0 days
139	✓	3.3.2	Operations Transfer: Phase 2 (Fwd Nodes, Stations)	GG,AL		15 days
140	✓	3.3.2.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX	15 days
141	✓	3.3.2.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX	15 days
142	✓	3.3.2.3	MILE 5: Fwd Nodes - Phase 2/4 of Ops Transfer done	GG,AL		0 days
143	✓	3.3.3	Operations Transfer: Phase 3 (Durable Locations, Queueing Nodes)	GG,AL		15 days
144	✓	3.3.3.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX	15 days
145	✓	3.3.3.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX	15 days
146	✓	3.3.3.3	MILE 10: Queuing,Durable Nodes - Phase 3/4 of Ops Transfer done	GG,AL		0 days
147	✓	3.3.4	Operations Transfer: Phase 4 (Jim Client, plus all else)	GG,AL		15 days
148	✓	3.3.4.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX	15 days
149	✓	3.3.4.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX	15 days
150	✓	3.3.4.3	MILE 21: Jim_Client+ - Phase 4/4 of Ops Transfer done	GG,AL		0 days
151	✓	3.3.5	milestone: Operations Transfer nominally completed	GG,AL		0 days
152	✓	3.4	VDT Version Migration	GG		63 days
153	✓	3.4.1	New VDT: VDT-oriented Testbed setup	GG	PM	8 days
154	✓	3.4.2	New VDT: VDT-oriented Testbed resetup	GG	PM	2 days
155	✓	3.4.3	New VDT: software adaptation and deployment	GG	PM	26 days
156	✓	3.4.5	MILE 9: SamGrid migrated to new VDT version	GG		0 days
157	✓	3.5	Operations Reduction Execution: "Road To Operations"	GG		120 days
158	✓	3.5.1	Reinstall key machines with standard configuration	GG		120 days
159	✓	3.5.1.1	Reach agreement among groups involved (by Sep 14)	GG	GG,AL	8 days
160	✓	3.5.1.2	Reinstall Forwarding Nodes with standard configuration	GG,AL		112 days
161	✓	3.5.1.2.1	Define standard fwd node machine configuration	GG	PM	2 days
162	✓	3.5.1.2.2	Reinstall Forwarding Nodes: Oct 22- Nov 20	GG		110 days
163	✓	3.5.1.2.2.1	Admins procure HW parts for all fwd nodes	GG	FEF	16 days
164	✓	3.5.1.2.2.2	Reinstall Forwarding Node 1 (w/Sam Station)	GG		20 days
165	✓	3.5.1.2.2.2.1	Admins configure candidate fwd node (by Oct 22)	GG	FEF	5 days
166	✓	3.5.1.2.2.2.2	Developers install and test candidate fwd node (by Fri Oct 26)	GG	PM	3 days
167	✓	3.5.1.2.2.2.4	Adjust current software to use standard location as default	GG	PM	1 day

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168	✓	3.5.1.2.2.2.3	Adjust current installation instructions	GG	PM	1 day
169	✓	3.5.1.2.2.2.5	REX ops re-installs on candidate machine	AL	SS	1 day
170	✓	3.5.1.2.2.2.7	Admins and REX ops configure production fwd node	AL	FEF,SS	1 day
171	✓	3.5.1.2.2.2.6	Switch candidate machine and d0srv047 (fwd + station) (Nov 6)	AL	SS	1 day
172	✓	3.5.1.2.2.2.9	Diagnose, resolve, document 32-bit/64-bit compatibility issues	GG,AL	PM,SS	4 days
173	✓	3.5.1.2.2.2.8	MILE 11: Forwarding Node w/Sam Station Reinstalled with std config	GG		0 days
174	✓	3.5.1.2.2.3	INPUT: Test of fail-over in production environment	GG	PM	0 days
175	✓	3.5.1.2.2.4	Reinstall Forwarding Node 2	AL		28 days
176	✓	3.5.1.2.2.4.1	REX ops drains and take production fwd node offline (d0srv15): NO-OP	AL	SS	1 day
177	✓	3.5.1.2.2.4.2	REX ops installs software on new production fwd node (samgfwd02)	AL	SS	2 days
178	✓	3.5.1.2.2.4.6	REX ops tests new production fwd node (samgfwd02)	AL	SS	5 days
179	✓	3.5.1.2.2.4.7	Rex ops and SamGrid Dev resolve perl/VDT issues revealed in fwd node test	AL	SS,PM	8 days
180	✓	3.5.1.2.2.4.8	REX ops retests new production fwd node (samgfwd02)	AL	SS	6 days
181	✓	3.5.1.2.2.4.3	Put new fwd node in production, drain old node (samgfwd02, old: d0srv15)	AL	SS	1 day
182	✓	3.5.1.2.2.4.5	milestone: verified fwd node configuration and procedure	AL		0 days
183		3.5.1.2.2.5	Reinstall Forwarding Node 3	AL		24 days
184	✓	3.5.1.2.2.5.2	REX ops installs software on new production fwd node (samgfwd03)	AL	SS	1 day
185	✓	3.5.1.2.2.5.5	REX ops tests new production fwd node (samgfwd03)	AL	SS	2 days
186		3.5.1.2.2.5.7	REX ops follows up on samgfwd03 stability concerns with FEF	AL	SS	16 days
187		3.5.1.2.2.5.8	REX ops re-installs software on Fwd Node 3	AL	SS	1 day
188		3.5.1.2.2.5.9	REX ops re-tests Fwd Node 3	AL	SS	2 days
189		3.5.1.2.2.5.3	Put new fwd node in production, drain old node (samgfwd03, old: d0srv66)	AL	SS	2 days
190		3.5.1.2.2.7	MILE 15: OSG Fwd nodes reinstalled with std config	GG		0 days
191	✓	3.5.1.2.2.8	Organize activities to prepare for LCG fwd node migration	GG	GG	13 days
192		3.5.1.2.2.11	Reinstall LCG/Germany/Wuppertal Forwarding Node	AL		11 days
193	✓	3.5.1.2.2.11.15	Site ops repairs failed disk, brings node back online	AL	LCG	6 days
194		3.5.1.2.2.11.16	REX ops installs software on LCG/Germany fwd node	AL	SS	2 days
195		3.5.1.2.2.11.17	REX ops puts LCG/Germany fwd node back into system	AL	SS	1 day
196		3.5.1.2.2.11.18	Site and REX ops configure production LCG/Germany fwd node	AL	SS,LCG	2 days
197		3.5.1.2.2.11.19	milestone: LCG/Germany Forwarding Node reinstalled with std config	AL		0 days
198		3.5.1.2.2.10	Reinstall LCG/UK/Imperial College Forwarding Node	AL		8 days
199		3.5.1.2.2.10.5	Site ops drains and take production fwd node offline	AL	LCG	3 days
200		3.5.1.2.2.10.6	REX ops installs software on LCG/UK fwd node	AL	SS	2 days
201		3.5.1.2.2.10.7	REX ops puts LCG/UK fwd node back into system	AL	SS	1 day
202		3.5.1.2.2.10.8	Site and REX ops configure production LCG/UK fwd node	AL	SS,LCG	2 days
203		3.5.1.2.2.10.9	milestone: LCG/UK Forwarding Node reinstalled with std config	AL		0 days
204		3.5.1.2.3	milestone: Forwarding nodes reinstalled with standard configuration	GG		0 days
205	✓	3.5.1.3	Reinstall Queuing Node with standard configuration	GG,AL		70 days
206	✓	3.5.1.3.1	Define standard queuing node machine configuration	GG	PM	5 days
207	✓	3.5.1.3.2	Reinstall Queuing Node: Oct 19 - Nov 6	GG		21 days
208	✓	3.5.1.3.2.1	Admins procure HW parts for samgrid-like node (job queuing, broker, web server)	GG	FEF	12 days
209	✓	3.5.1.3.2.2	Admins configure test instance of samgrid-like node	GG	FGS	2 days

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210	✓	3.5.1.3.2.3	Developers install and test samgrid-like node (by Wed Nov 7)	GG	PM	2 days
211	✓	3.5.1.3.2.4	Adjust current installation instructions	GG	PM	1 day
212	✓	3.5.1.3.2.5	Adjust current software to use standard location as default	GG	PM	1 day
213	✓	3.5.1.3.2.6	Admins configure production samgrid-like node	AL	FGS	1 day
214	✓	3.5.1.3.2.7	REX ops installs queuing software on production samgrid-like node	AL	SS	1 day
215	✓	3.5.1.3.2.9	Dev ops installs web server software on production samgrid-like node	AL	PM	1 day
216	✓	3.5.1.3.2.8	REX ops integrates new samgrid-like node into production system	AL		1 day
217	✓	3.5.1.3.2.8.1	Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)	AL	SS	1 day
218	✓	3.5.1.3.3	MILE 12: Queuing node reinstalled with std config	GG		0 days
219	✓	3.5.1.3.4	Diagnose job history incompatibility issues and create migration plan	GG	PM,GG	3 days
220	✓	3.5.1.3.11	Prepare for migration from mixed old/new samgrid nodes to new node use only	GG	PM,GG	5 days
221	✓	3.5.1.3.5	Migrate MC Prod from mixed old/new samgrid nodes to new node use only	GG	JS	23 days
222	✓	3.5.1.3.6	Migrate Prod from mixed old/new samgrid nodes to new node use only	GG	MD	7 days
223	✓	3.5.1.3.12	Turn off old samgrid.fnal.gov (samgsrv1) - warn,do,check	GG	GG	6 days
224	✓	3.5.1.3.8	milestone: Migration to exclusive use of new samgrid node completed	GG		0 days
225	✓	3.5.1.4	Reinstall Durable Locations with standard configuration	GG,AL		13 days
226	✓	3.5.1.4.1	Define standard durable location machine configuration	GG	PM	9 days
227	✓	3.5.1.4.2	Reinstall Durable Locations: Nov 9 - Nov 28	GG		4 days
228	✓	3.5.1.4.2.1	MOOT: Admins procure HW parts(?) for test instance of durable location node	GG	FEF	0 days
229	✓	3.5.1.4.2.2	MOOT: Admins configure test instance of durable location node (by Fri Nov 9)	GG	FEF	0 days
230	✓	3.5.1.4.2.3	MOOT: Developers install and test durable location node (by Fri Nov 23)	GG	PM	0 days
231	✓	3.5.1.4.2.4	Durable Locations: Adjust current installation instructions	GG	PM	1 day
232	✓	3.5.1.4.2.5	MOOT: Adjust current software to use standard location as default	GG	PM	0 days
233	✓	3.5.1.4.2.6	MOOT: REX ops re-installs on test machine	AL	SS	0 days
234	✓	3.5.1.4.2.7	REX ops reconfigures existing durable locations	AL		0 days
235	✓	3.5.1.4.2.7.1	MOOT: Stop tmb upload to d0srv063; REX ops reinstalls durable location	AL	SS	0 days
236	✓	3.5.1.4.2.7.2	MOOT: Stop tmb upload to d0srv065; REX ops reinstalls durable location	AL	SS	0 days
237	✓	3.5.1.4.3	MILE 17: Durable Locations reinstalled with std config	GG		0 days
238		3.5.1.5	milestone: Standard configuration defined and key machines reinstalled	GG		0 days
239		3.5.8	Create SamGrid Test Stand	AL		16 days
240	✓	3.5.8.7	REX ops and Run2Sys agree on/setup hardware config of test stand nodes	AL	SS	6 days
241		3.5.8.1	REX ops installs software on test fwd node (d0srv15)	AL	SS	1 day
242		3.5.8.2	Admins fix disk on test queue node (old samgrid)	AL	FEF	2 days
243		3.5.8.5	REX ops installs software on test queue node (old samgrid)	AL	SS	1 day
244		3.5.8.6	REX ops installs durable locations test machine	AL	SS	1 day
245		3.5.8.3	Trial use of SamGrid test stand	AL	SS	2 days
246		3.5.8.4	milestone: SamGrid test stand completed	AL		0 days
247		3.5.2	Automate routine maintenance operations	GG		37 days
248		3.5.2.1	Automatic clean up of job queues	GG		37 days
249	✓	3.5.2.1.5	Dev tools to auto-clean up OSG job queue in samgrid_util (Forwarding Nodes)	GG	PM	2 days
250	✓	3.5.2.1.2	Deploy/observe tools for auto-clean up of OSG job queue (Fwd Nodes 1,2 re-installed)	GG	PM,SS	4 days
251		3.5.2.1.3	Dev tools to auto-clean up SamGrid job queue in samgrid_util (Queuing Node)	GG	PM	9 days

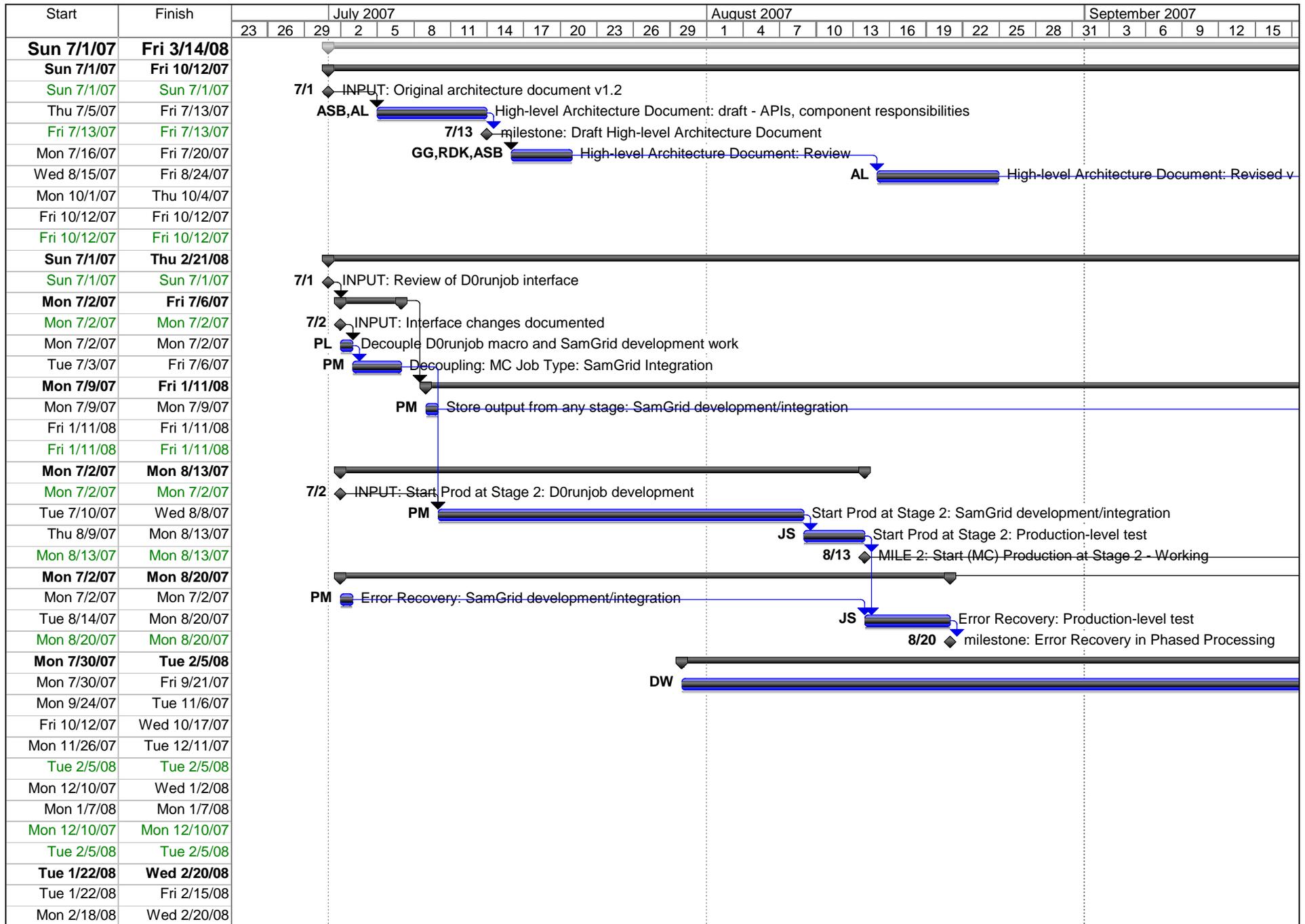
ID		WBS	Task Name	Contact	Resource Initials	Duration
252		3.5.2.1.4	Deploy/observe tools for auto-clean up of SamGrid job queue	GG	PM,SS	3 days
253		3.5.2.1.8	Deploy/observe tools for auto-clean up of OSG job queue (Fwd Node 3 re-installed)	GG	SS	3 days
254		3.5.2.2	Automatic clean-up of disk areas	GG		28 days
255		3.5.2.2.1	Resolve: Globus gatekeeper does not properly cleanup gass caches	GG	PM	1 day
256		3.5.2.2.2	Periodically clean up gram log files at fwd nodes and exec sites	GG	PM	1 day
257		3.5.2.2.3	Clean up sandboxes and jim_tmp areas at fwd node	GG	PM	1 day
258		3.5.2.2.4	Clean up non-rotated log files (eg. Tomcat): CVS archive part	GG	PM	8 days
259		3.5.2.2.5	Clean up non-rotated log files (eg. Tomcat): Logrotate part	GG	PM	6 days
260		3.5.2.3	Automation of all gridmap file management (including condor_schedd)	GG	PM	1 day
261		3.5.2.4	Simplify maintenance of automatic clean-up scripts for durable locations	GG	AB2	5 days
262		3.5.2.5	Add the deployment of scripts to installation instructions	GG	PM	1 day
263		3.5.2.7	MILE 23: Routine maintenance operations automated	GG		0 days
264		3.5.4	Automatic handling of job log files	GG		94 days
265		3.5.4.1	Reduce size of output sandbox	GG	AB2	1 day
266		3.5.4.2	Make output sandbox space management more robust	GG	AB2	1 day
267		3.5.4.3	Transfer output sandbox selection logic to Runjob: Initial Pass	GG	PL	20 days
268		3.5.4.8	Transfer output sandbox selection logic to Runjob: Test, add old/new support	GG	AB2	8 days
269		3.5.4.10	Transfer output sandbox selection logic to Runjob: Final testing	GG	AB2	10 days
270		3.5.4.11	milestone: Automated handling of job log files	GG		0 days
271		3.5.4.9	Logfile Access Tools			23 days
272		3.5.4.9.1	Specify tools for accessing old logfiles	GG	MD	5 days
273		3.5.4.9.2	Provide tools (to MD) for accessing old logfiles	GG	AB2	6 days
274		3.5.4.9.3	Test logfile access tools	GG	MD	5 days
275		3.5.4.9.4	Revise tools given customer feedback	GG	AB2	2 days
276		3.5.5	Automate system health alarms	GG		92 days
277		3.5.5.1	NGOP central service	GG		66 days
278		3.5.5.1.1	Define hardware	GG	AB2	1 day
279		3.5.5.1.2	Install basic NGOP server	GG	AB2	1 day
280		3.5.5.1.4	Deploy and test best schema as depicted	GG	AB2	1 day
281		3.5.5.1.5	Understand SAM-Grid representation requirements: Dev part	AL	AB2	5 days
282		3.5.5.1.6	Understand SAM-Grid representation requirements: Ops part	AL	RH	5 days
283		3.5.5.1.9	Static NGOP configuration approach (instead of automated)	AL	AB2,REX	8 days
284		3.5.5.1.8	milestone: NGOP central service prepared	GG		0 days
285		3.5.5.2	Samgrid_mon	GG		19 days
286		3.5.5.2.1	Develop persistent environment for repetitive task execution	GG	AB2	10 days
287		3.5.5.2.2	Develop converter between SamGrid config and next-gen cron	GG	AB2	5 days
288		3.5.5.2.4	Store duplicate configuration of fwd node	GG	AB2	1 day
289		3.5.5.2.5	Accept existing configuration of fwd node	GG	AB2	1 day
290		3.5.5.2.6	Dispatch list of monitoring agents periodically, collect statuses	GG	AB2	1 day
291		3.5.5.2.7	Create distributable UPD package	GG	AB2	1 day
292		3.5.5.2.8	milestone: Samgrid_mon developed	GG		0 days
293		3.5.5.3	Develop monitoring scripts	GG		13 days

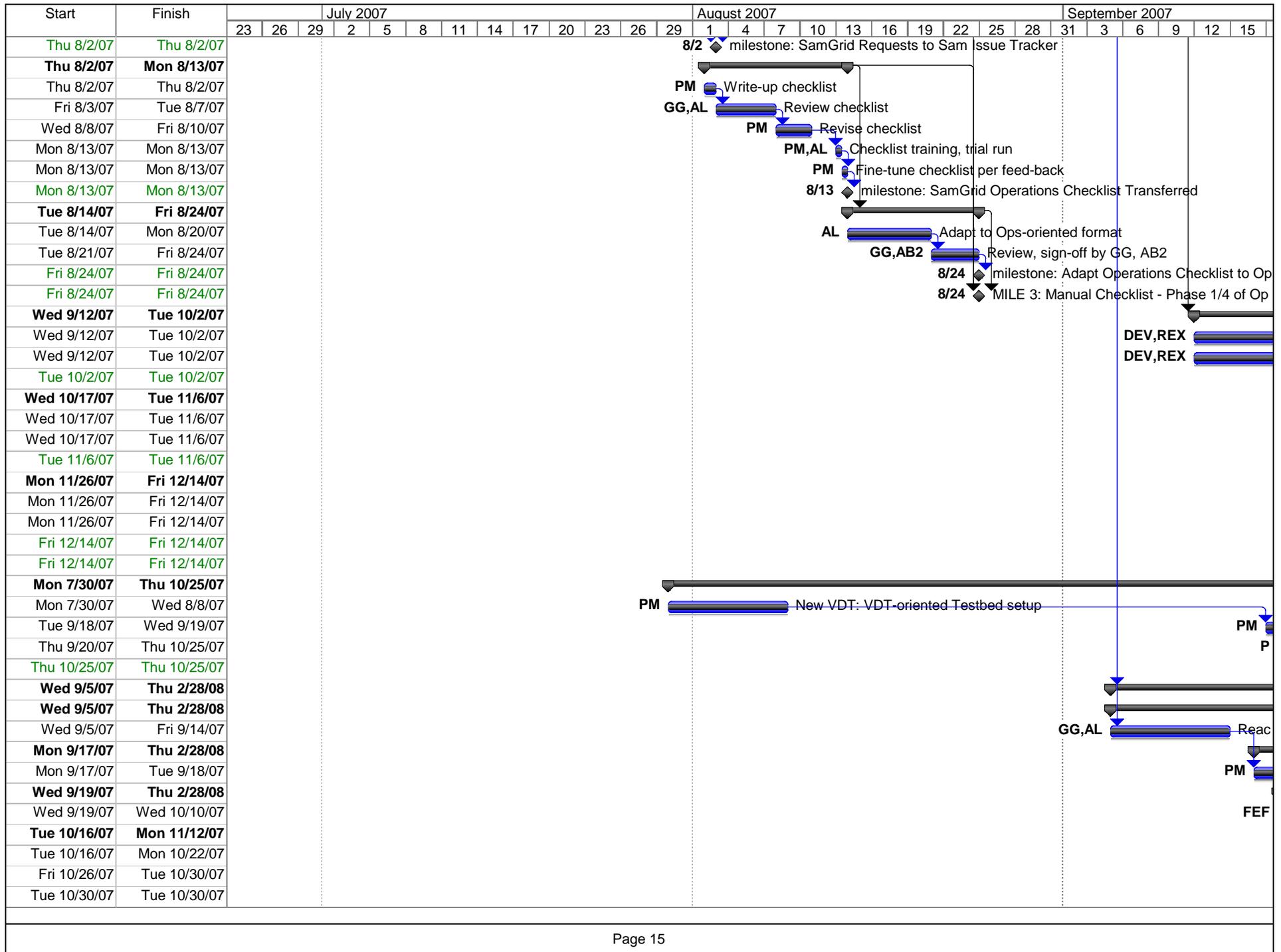
ID		WBS	Task Name	Contact	Resource Initials	Duration
294	✓	3.5.5.3.1	Develop generic scripts for Gridftp and Fcp monitoring	GG	AB2	1 day
295	✓	3.5.5.3.3	Data Nodes: Stager, Durable location, caches, Gridftp, Fcp	GG	AB2	6 days
296	✓	3.5.5.3.2	Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, opt. sched. component	GG	AB2	6 days
297	✓	3.5.5.3.4	milestone: Monitoring scripts developed	GG		0 days
298	✓	3.5.5.5	Assess automation of alarming systems	GG	AB2	2 days
299	✓	3.5.5.6	Integration deployment and testing	GG	AB2	4 days
300	✓	3.5.5.7	Documentation Initiation	GG	AB2	5 days
301	✓	3.5.5.4	MILE 19: System health alarms deployed via NGOP with static config	GG		0 days
302	✓	3.5.5.12	Generate NGOP agents from set of monitoring scripts and config	GG	AB2	2 days
303	✓	3.5.5.14	Documentation Completion	GG	AB2	18 days
304	✓	3.5.5.15	Create NGOP config baseline, support process, training	AL	AL,AB2	10 days
305	✓	3.5.5.8	milestone: System health alarms via NGOP with sustainable process	GG		0 days
306	✓	3.5.6	Improve system testing infrastructure	GG		3 days
307	✓	3.5.6.1	Simplify running test jobs	GG		3 days
308	✓	3.5.6.1.1	Create test parameters for all job types	GG	AB2	1 day
309	✓	3.5.6.1.2	Create and distribute JDL templates with test parameters	GG	AB2	1 day
310	✓	3.5.6.1.3	Write testing instructions	GG	AB2	1 day
311	✓	3.5.6.1.4	milestone: Running test jobs simplified per request	GG		0 days
312		3.5.7	milestone: End of the Road to Operations	GG		0 days
313	✓	3.7	Other Operations-related Fixes and Upgrades	GG		108 days
314	✓	3.7.1	Clarify D0 certificate approval process, personnel	GG	GG	5 days
315	✓	3.7.5	Investigate "Immortal Jobs" Operations Issue	GG		0 days
316		3.8	MILE 27: Close-out of Ops Reduction/Transfer completed	GG		0 days
317		4	D0 Primary Production on Fermigrd	MD		166 days
318	✓	4.1	Initial Commissioning	MD		9 days
319	✓	4.1.1	INPUT: Attempt to run D0 Primary Production on FermiGrid	MD	MD	0 days
320	✓	4.1.2	OSG/Fermigrd Resource Selection Meeting	MD	MD	0.5 days
321	✓	4.1.3	Config D0Production role: Fermigrd, GUMS, CAB, PBS, etc.	ST,FEF	MD	6 days
322	✓	4.1.4	Run D0 Primary Prod via D0Production role	MD	MD	1 day
323	✓	4.1.5	MILE 1: D0 Primary Production Runnable on Fermigrd	MD		0 days
324	✓	4.2	D0PPF Commissioning Evaluation Meeting	RDK		1 day
325		4.3	Stable Operations	MD		127 days
326	✓	4.3.1	Commissioning Follow-up	MD		9 days
327	✓	4.3.1.1	Fix d0srv065 storage issues	MD	MD	3 days
328	✓	4.3.1.2	Run D0 Primary Prod to verify storage fix	MD	MD	3 days
329	✓	4.3.1.3	Scale-up D0 Primary Prod to 200 nodes	MD	MD	3 days
330	✓	4.3.1.4	milestone: D0PPF Stable Ops: Commissioning follow-up completed	MD	MD	0 days
331	✓	4.3.2	Management Processes and Documentation	MD		101 days
332	✓	4.3.2.1	Implement Change Management for feature requests using SAM IssueTracker	MD		1 day
333	✓	4.3.2.2	Establish service level for stable operations and implications on system config	MD,GG,PM,JS		5 days
334	✓	4.3.2.3	Grid Production System workflow/dataflow diagram - draft	RDK	RDK	3 days
335	✓	4.3.2.4	Grid Production System info on diagram: node roles, software, maintainers	RDK	RDK,AB2	2.5 days

ID		WBS	Task Name	Contact	Resource Initials	Duration
336		4.3.2.8	Grid Production System workflow/dataflow diagram - final	RDK	RDK	5 days
337		4.3.2.5	Open Science Enclave baseline security plan - implications on SamGrid, CAB	MD	MD,GG,FEF	20 days
338		4.3.2.7	milestone: D0PPF Stable Ops: Management Processes and Documentation done	MD		0 days
339		4.3.3	System Monitoring	MD		127 days
340		4.3.3.1	CAB web monitoring infrastructure upgrade	RDK	FEF	18 days
341		4.3.3.5	CAB web monitoring changes requested by MD,JS	RDK	FEF	20 days
342		4.3.3.4	milestone: D0PPF Stable Ops: System Monitoring done	MD		0 days
343		4.3.4	Specific System Services Issues	MD		70 days
344		4.3.4.1	Allow access by MD to dir/files on CAB owned by dzeropro (suggested: get root access)	MD	MD	14 days
345		4.3.4.2	JIM production release consistent with d0runjob v7-7-3 and higher	MD	MD	14 days
346		4.3.4.3	Evaluate use of ReSS (more flexible than use of roles)	GG	GG	28 days
347		4.3.4.5	Determine in detail how to adapt to use ReSS in D0GPCI	GG	GG	13 days
348		4.3.4.6	Implement SAM-Grid mechanism to forward user's job scheduler requirements to sites	GG	PM	6 days
349		4.3.4.4	milestone: D0PPF Stable Ops: Specific System Services done	MD		0 days
350		4.3.5	General System Services Issues (Road to Operations)	GG		115 days
351		4.3.5.1	INPUT: (3.5.1) Standardize file system layout on SamGrid nodes	GG		0 days
352		4.3.5.2	INPUT: (3.5.1) Get all nodes governing operation in a consistent, known state	GG		0 days
353		4.3.5.3	INPUT: (3.5.4) Evaluate how to reduce bandwidth consumed by moving logs	GG		0 days
354		4.3.5.4	INPUT: (3.5.4) Make Custom output support smarter, use compression	GG	AB2	0 days
355		4.3.5.5	INPUT: (3.5.4) Migrate Custom output support from SAM wrapper to D0runjob	GG		0 days
356		4.3.5.6	INPUT: (3.5.4) Implement a logfile archive node	GG		0 days
357		4.3.5.7	milestone: D0PPF Stable Ops: General System Services done	GG		0 days
358		4.4	D0PPF Operations Evaluation Meeting	RDK		1 day
359		4.7	MILE 28: D0 Primary Production Stable on Fermigrid	MD		0 days
360		5	Extend Grid Production System Functionality	GG		83 days
361		5.1	Forwarding Node Behind Firewall	GG		5 days
362		5.1.1	Forwarding Node Behind Firewall: Evaluate, determine best course of action	GG	AB2	5 days
363		5.2	Minimal Resource Brokering	GG		20 days
364		5.2.1	Minimal Resource Brokering: Evaluate, determine best course of action	GG	GG	20 days
365		5.3	MILE 16: Grid Production System functionality completed	GG		0 days
366		6	Preparation of D0 Apps for Long-term	ASB		82 days
367		6.1	Skimming	HG		0 days
368		6.1.1	Productize Skimming	RDK		0 days
369		6.2	CAF Trees			0 days
370		6.2.1	Productize CAF Tree generation	RDK		0 days
371		6.3	Raw2Sim			0 days
372		6.3.1	Productize Raw2Sim	RDK		0 days
373		6.4	AADST			82 days
374		6.4.1	Productize AADST	RDK		0 days
375		6.4.3	Enable data migration to SAM storage	AL	AL	2 days
376		6.4.4	Track data migration to SAM storage	AL	AL	65 days
377		6.4.5	Perform data migration to SAM storage	AL	D0	75 days

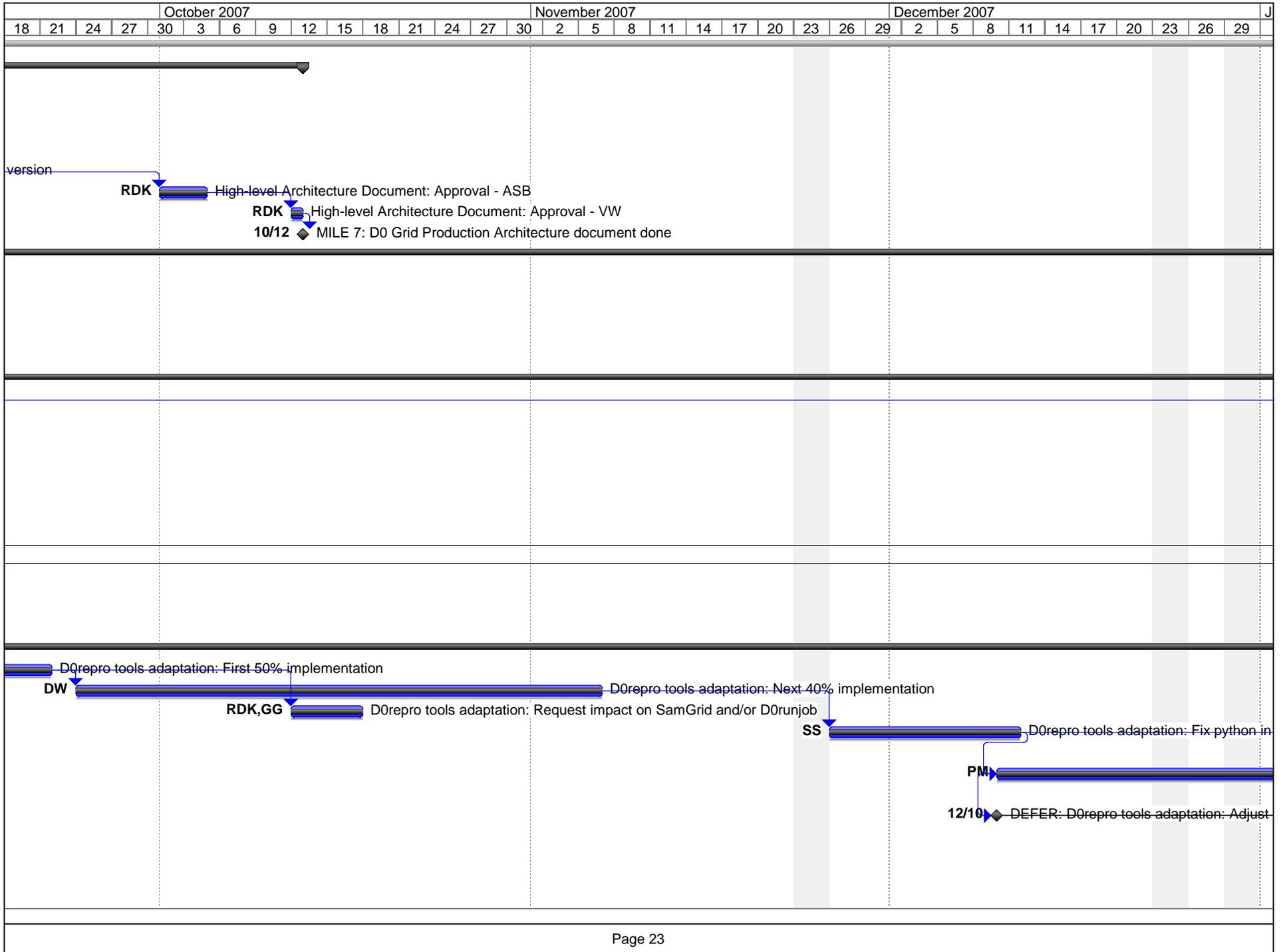
ID		WBS	Task Name	Contact	Resource Initials	Duration
378		6.6	Write recommendations for productization of D0 Apps	RDK	RDK	4 days
379		6.5	MILE 24: Preparation of D0 Apps for long-term	ASB		0 days
380		7	Evaluation of D0 SamGrid Requests	RDK		85 days
381		7.1	Reco			0 days
382		7.1.1	EVAL: Ability to merge more than 1 stream from Reco	RDK		0 days
383		7.2	MC Production			0 days
384		7.2.1	EVAL: Ability to run TrigSim in MC Production	RDK		0 days
385		7.3	Skimming			0 days
386		7.3.1	EVAL: Skimming in Production	RDK		0 days
387		7.4	EVAL: Fixing			0 days
388		7.5	Raw2Sim			0 days
389		7.5.1	EVAL: Run raw2sim on minbias files	RDK		0 days
390		7.6	Reco-cert			76 days
391		7.6.1	EVAL: Merging of reco-cert files	RDK		0 days
392		7.6.2	Stand-alone production of reco-cert output on SamGrid			9 days
393		7.6.2.1	Develop WBS for implementing S/A Recocert on SamGrid	RDK	RDK	9 days
394		7.7	CAF Trees			0 days
395		7.7.1	EVAL: CAF Trees from Production	RDK		0 days
396		7.8	EVAL: MC CAF Trees	RDK		0 days
397		7.9	EVAL: AADST	RDK		0 days
398		7.10	EVAL: Grid Analysis	RDK		0 days
399		7.12	Evaluate remaining D0 SamGrid Requests	RDK		85 days
400		7.12.2	Develop generic WBS for adapting D0 Apps to Grid Production	RDK	RDK	9 days
401		7.12.3	Create form to capture D0 App requirements, workflow, use patterns	RDK	RDK	2 days
402		7.12.4	Create maintainable list of known portability issues for D0 Apps on Grid	RDK	RDK	2 days
403		7.12.1	D0 SamGrid Requests Evaluation: Draft version (v0.8)	RDK	RDK	5 days
404		7.12.8	D0 SamGrid Requests Evaluation: Meet w/D0 Spokes and Vicky White	RDK		0 days
405		7.12.9	D0 SamGrid Requests Evaluation: Review version (v0.9)	RDK	RDK	2 days
406		7.12.5	D0 SamGrid Requests Evaluation: Internal Review	RDK		5 days
407		7.12.6	D0 SamGrid Requests Evaluation: Revision (v1.0)	RDK	RDK	2 days
408		7.12.7	D0 SamGrid Requests Evaluation: Approval	RDK		1 day
409		7.11	MILE 25: Evaluation of D0 SamGrid Requests done	RDK		0 days
410		8	Project Management	RDK		176 days
411		8.1	INPUT: Draft Preliminary High-level WBS	RDK	RDK	0 days
412		8.2	Initiative Coordination Meeting	RDK		161.13 days
413		8.2.1	Initiative Coordination Meeting 1	RDK		1 hr
414		8.2.2	Initiative Coordination Meeting 2	RDK		1 hr
415		8.2.3	Initiative Coordination Meeting 3	RDK		1 hr
416		8.2.4	Initiative Coordination Meeting 4	RDK		1 hr
417		8.2.5	Initiative Coordination Meeting 5	RDK		1 hr
418		8.2.6	Initiative Coordination Meeting 6	RDK		1 hr
419		8.2.7	Initiative Coordination Meeting 7	RDK		1 hr

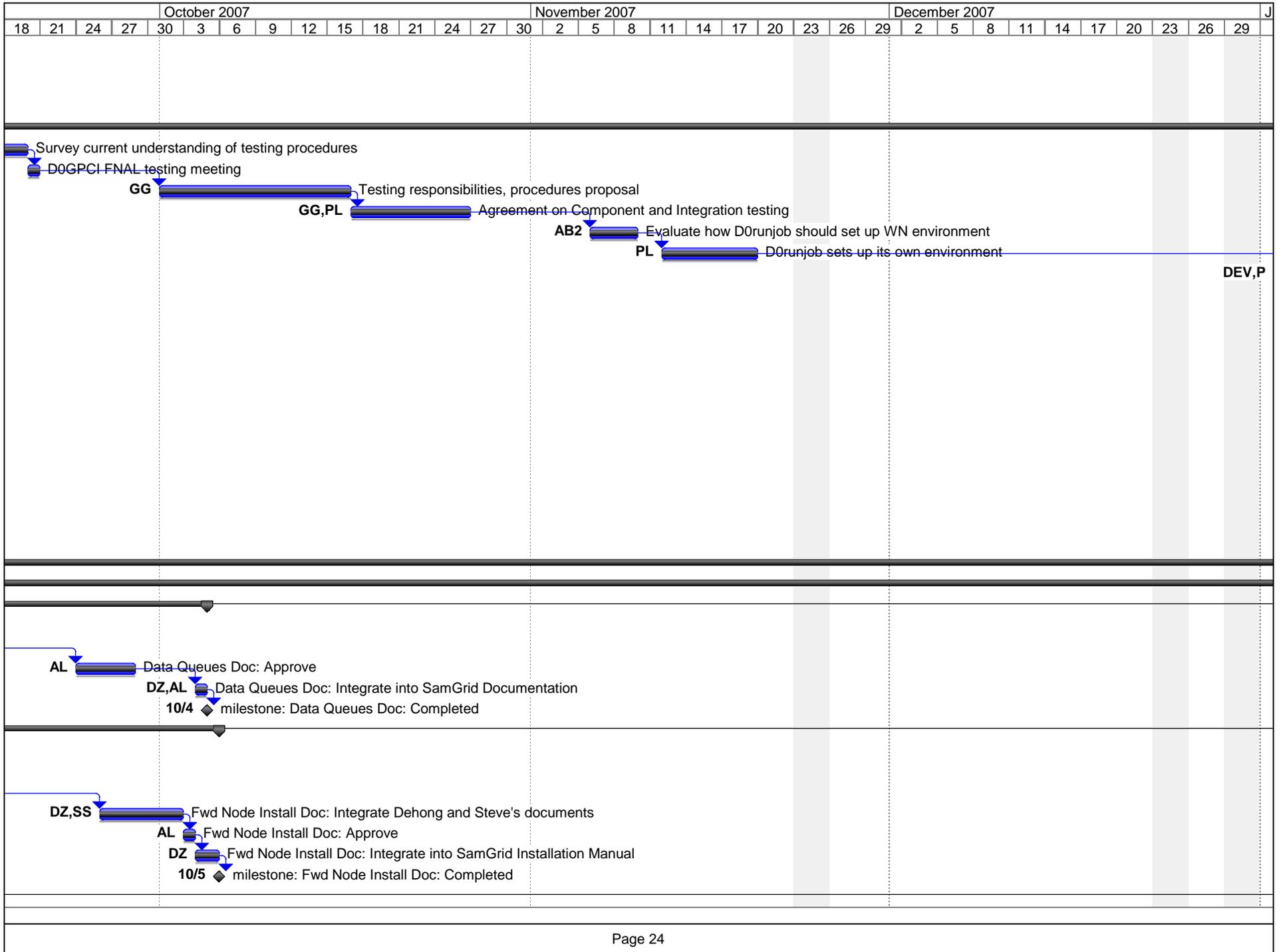
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420	✓	8.2.8	Initiative Coordination Meeting 8	RDK		1 hr
421	✓	8.2.9	Initiative Coordination Meeting 9	RDK		1 hr
422	✓	8.2.10	Initiative Coordination Meeting 10	RDK		1 hr
423	✓	8.2.11	Initiative Coordination Meeting 11	RDK		1 hr
424	✓	8.2.12	Initiative Coordination Meeting 12	RDK		1 hr
425	✓	8.2.13	Initiative Coordination Meeting 13	RDK		1 hr
426	✓	8.2.16	Initiative Coordination Meeting 14	RDK		1 hr
427	✓	8.2.14	Initiative Coordination Meeting 15	RDK		1 hr
428	✓	8.2.17	Initiative Coordination Meeting 16	RDK		1 hr
429	✓	8.2.15	Initiative Coordination Meeting 17	RDK		1 hr
430	✓	8.2.19	Initiative Coordination Meeting 18	RDK		1 hr
431	✓	8.2.20	Initiative Coordination Meeting 19	RDK		1 hr
432	📅	8.2.21	Initiative Coordination Meeting 20	RDK		1 hr
433	📅	8.2.22	Initiative Coordination Meeting 21	RDK		1 hr
434	✓	8.3	Project Planning	RDK		78.9 days
435	✓📅	8.3.1	WBS/Schedule v0.8 for 3/7 objectives	RDK	RDK	10 days
436	✓📅	8.3.2	milestone: WBS/Schedule v0.8, begin weekly status'ing	RDK		0 days
437	✓	8.3.3	WBS/Schedule v0.9 for 5/7 objectives	RDK	RDK	13 days
438	✓📅	8.3.4	milestone: Plan v0.9 sufficient to drive near-term work	RDK		0 days
439	✓	8.3.5	Draft WBS/Schedule v1.0 for 7/7 objectives	RDK	RDK,GG	32 days
440	✓	8.3.6	Big Baseline Planning Meeting	RDK		1 day
441	✓	8.3.7	Create Baseline Project Plan v1.0	RDK	RDK	2 days
442	✓📅	8.3.8	MILE 6: Baseline Project Plan v1.0 released	RDK		0 days
443	✓	8.3.9	Baseline Project Plan: Executive Presentations	RDK	RDK	4 days
444	✓	8.3.12	Baseline Project Plan v1.0: Integrate feed-back	RDK	RDK	2 days
445	✓	8.3.13	Baseline Plan Project v1.1: Drop tasks pushed out past end of Initiative	RDK	RDK	2 days
446	✓📅	8.3.14	MILE 8: Project Plan v1.1	RDK		0 days
447		8.4	Project Administration	RDK		154.9 days
448	✓	8.4.1	Planning Phase (Level of Effort = 5%)	RDK	RDK	48 days
449		8.4.2	Execution Phase (Level of Effort >= 15%)	RDK	RDK	87 days
450		8.5	Project Close-out	RDK		10 days
451	📅📅	8.5.1	Project Close-out Meeting	RDK	RDK	1 day
452		8.5.2	Project Close-out Report	RDK	RDK	5 days
453		8.5.3	Project Close-out Report Approval: ABS, CD	RDK	ASB,RDK	3 days
454		8.5.4	Archive project artifacts	RDK	RDK	1 day
455		8.5.5	milestone: Initiative Closed-out	RDK		0 days
456		9	MILE 29: D0 GPC Initiative completed	ASB		0 days

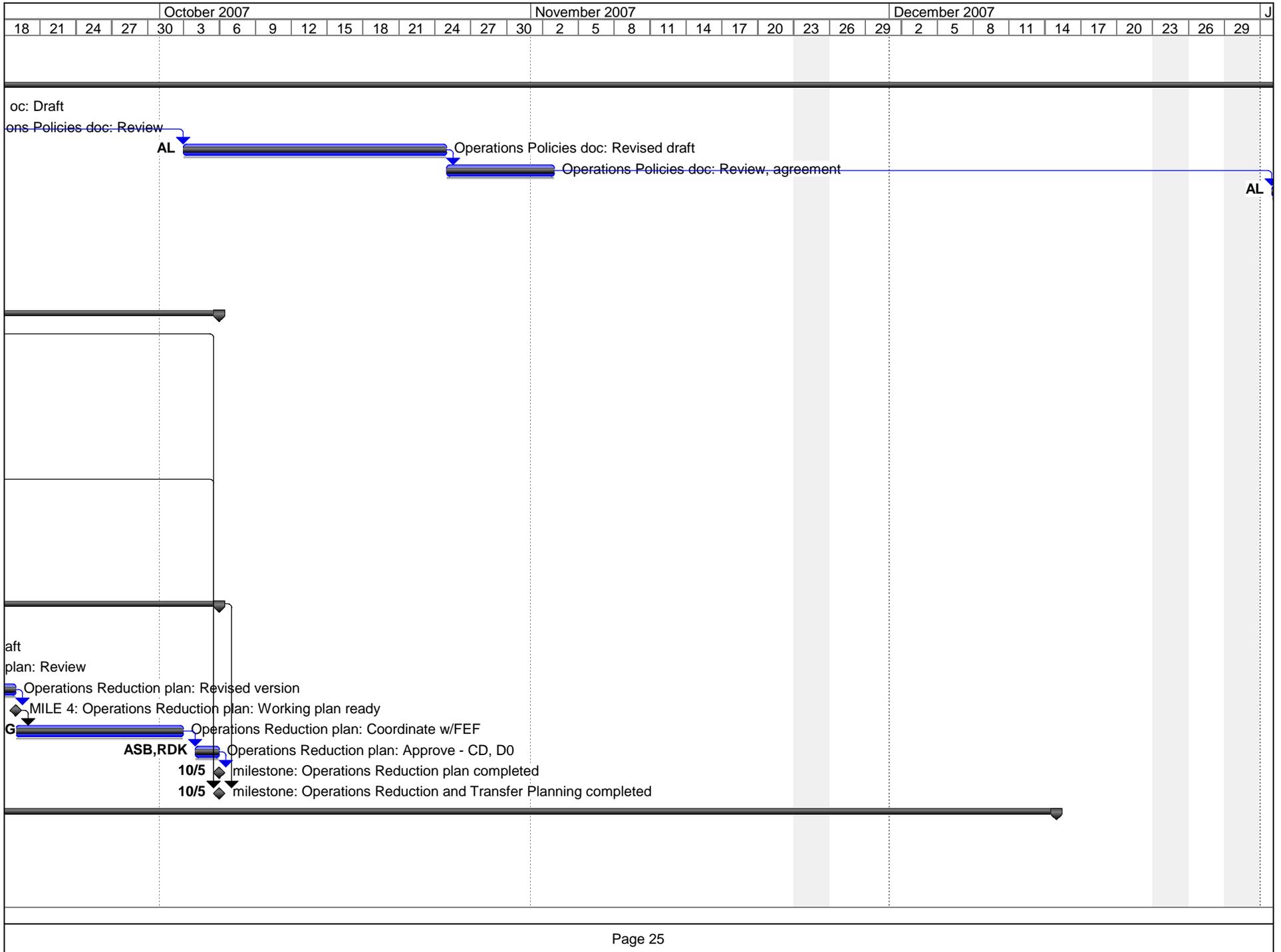


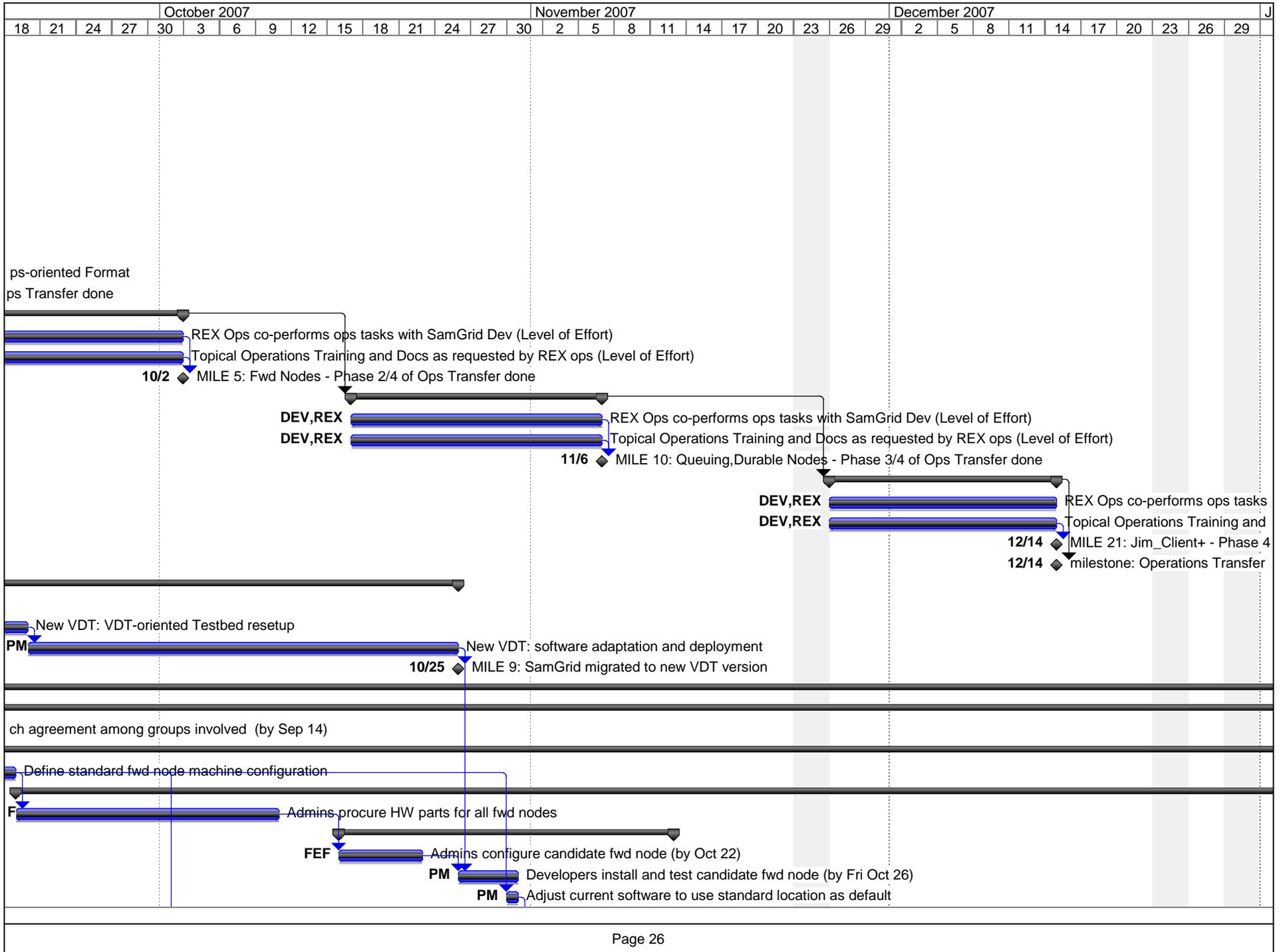


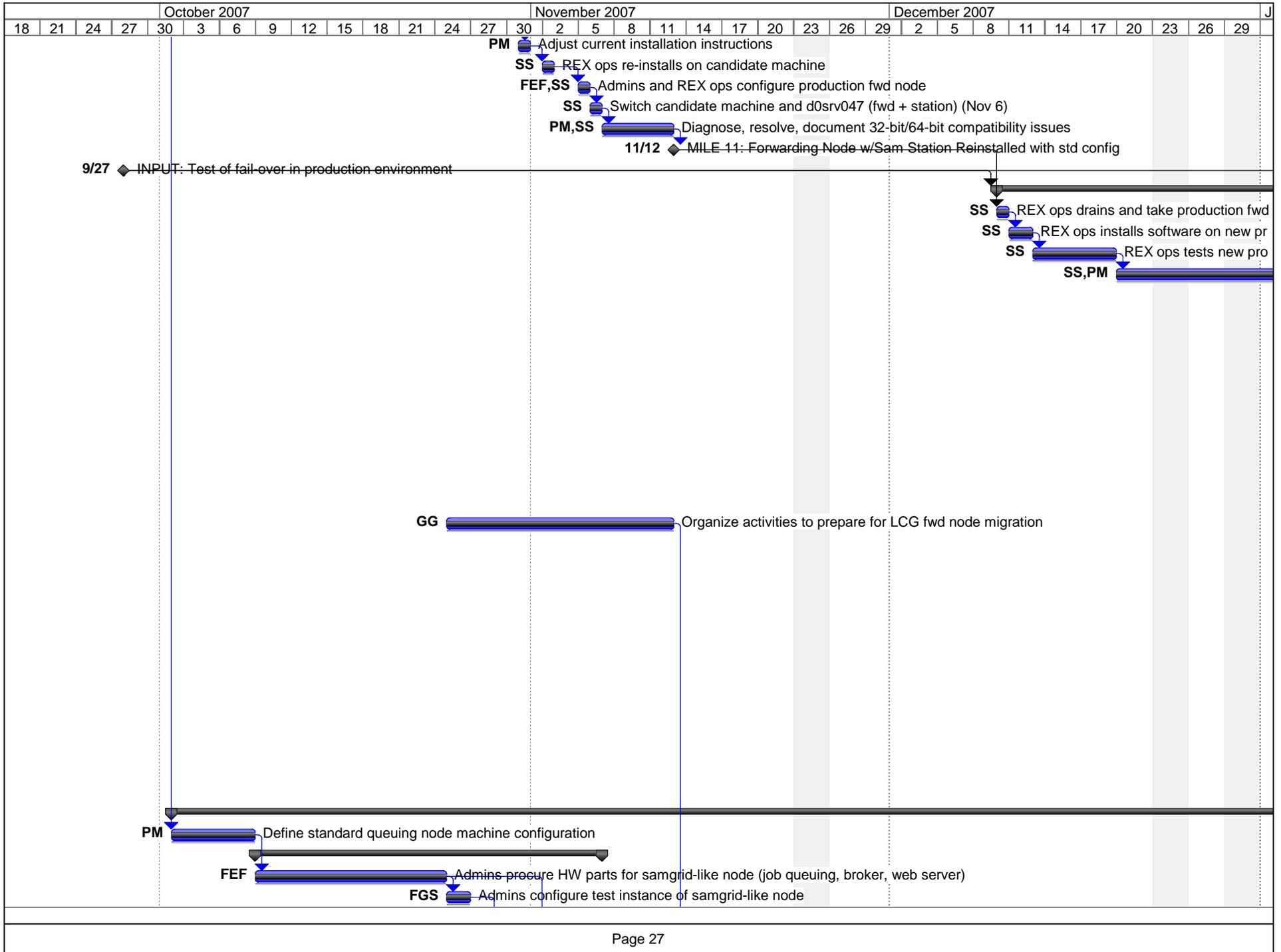
Start	Finish	July 2007											August 2007											September 2007					
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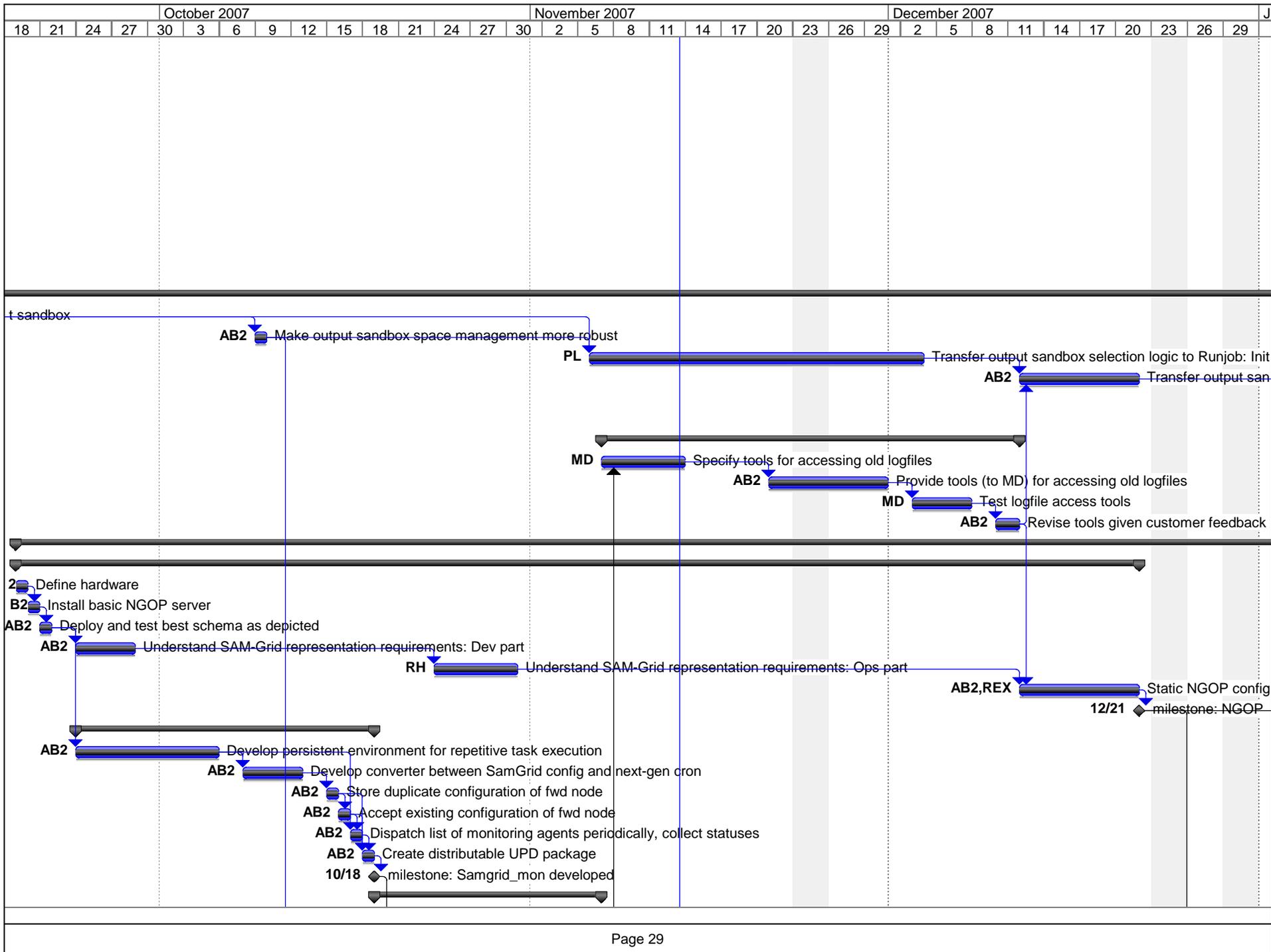


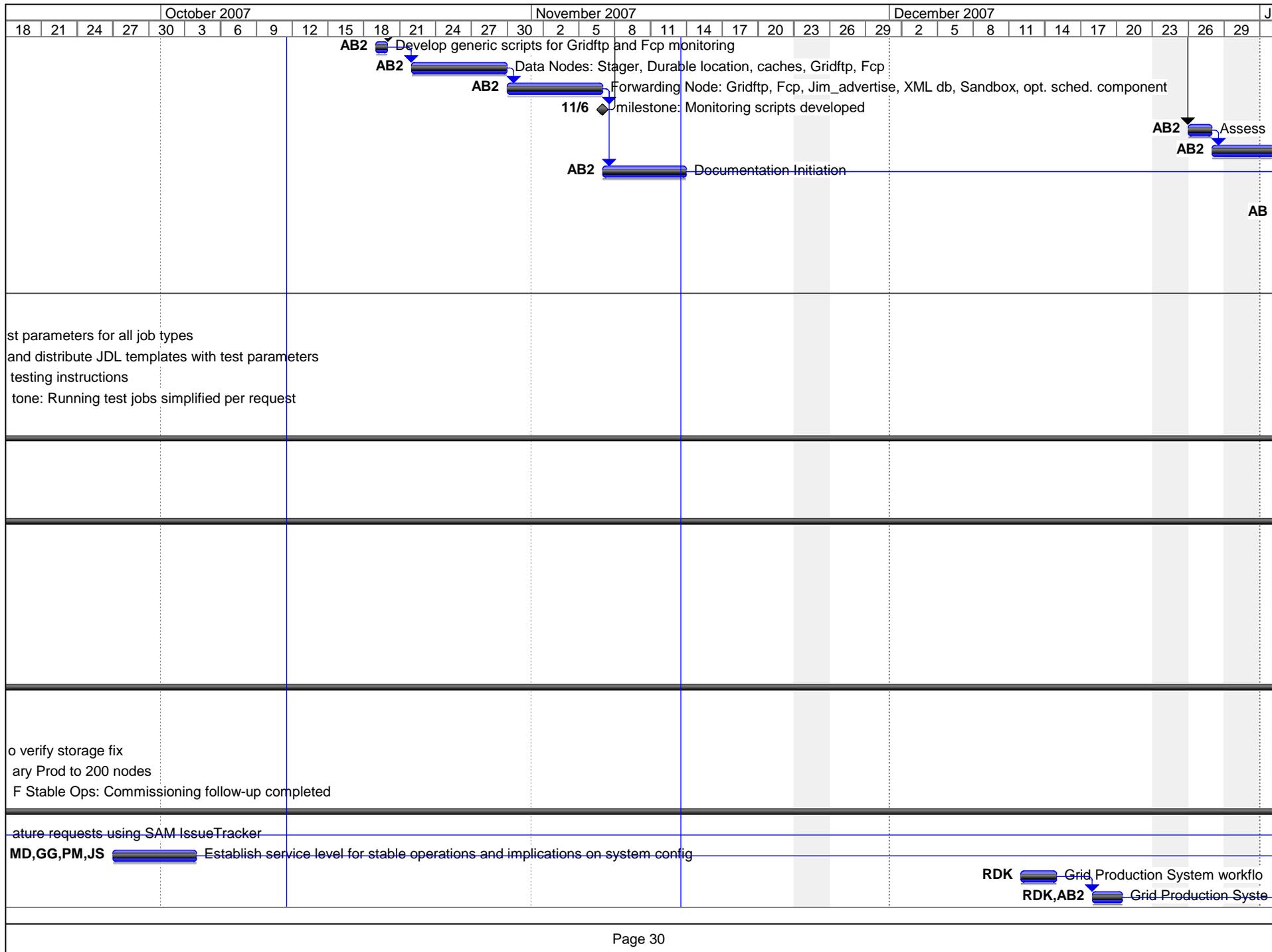


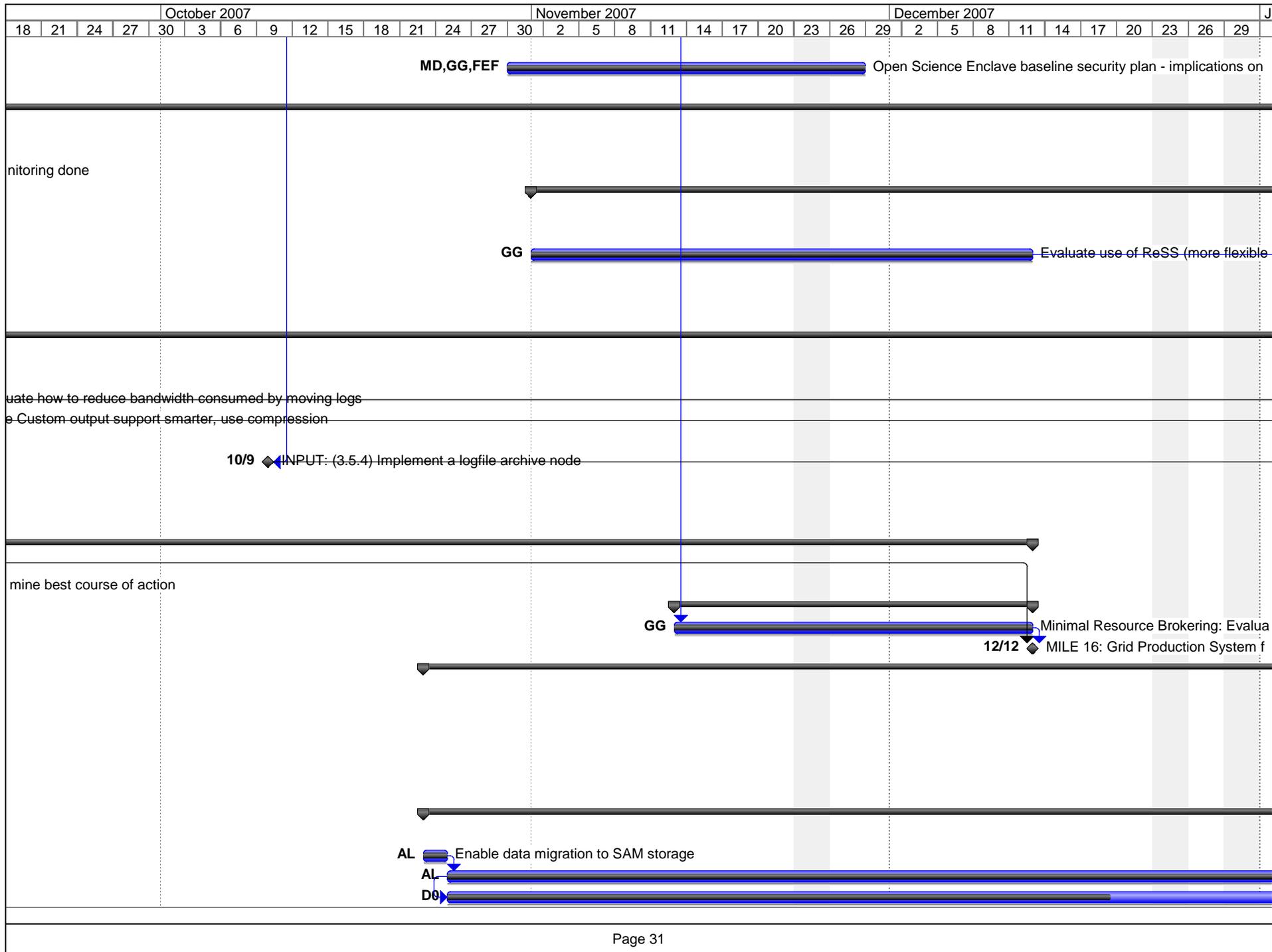


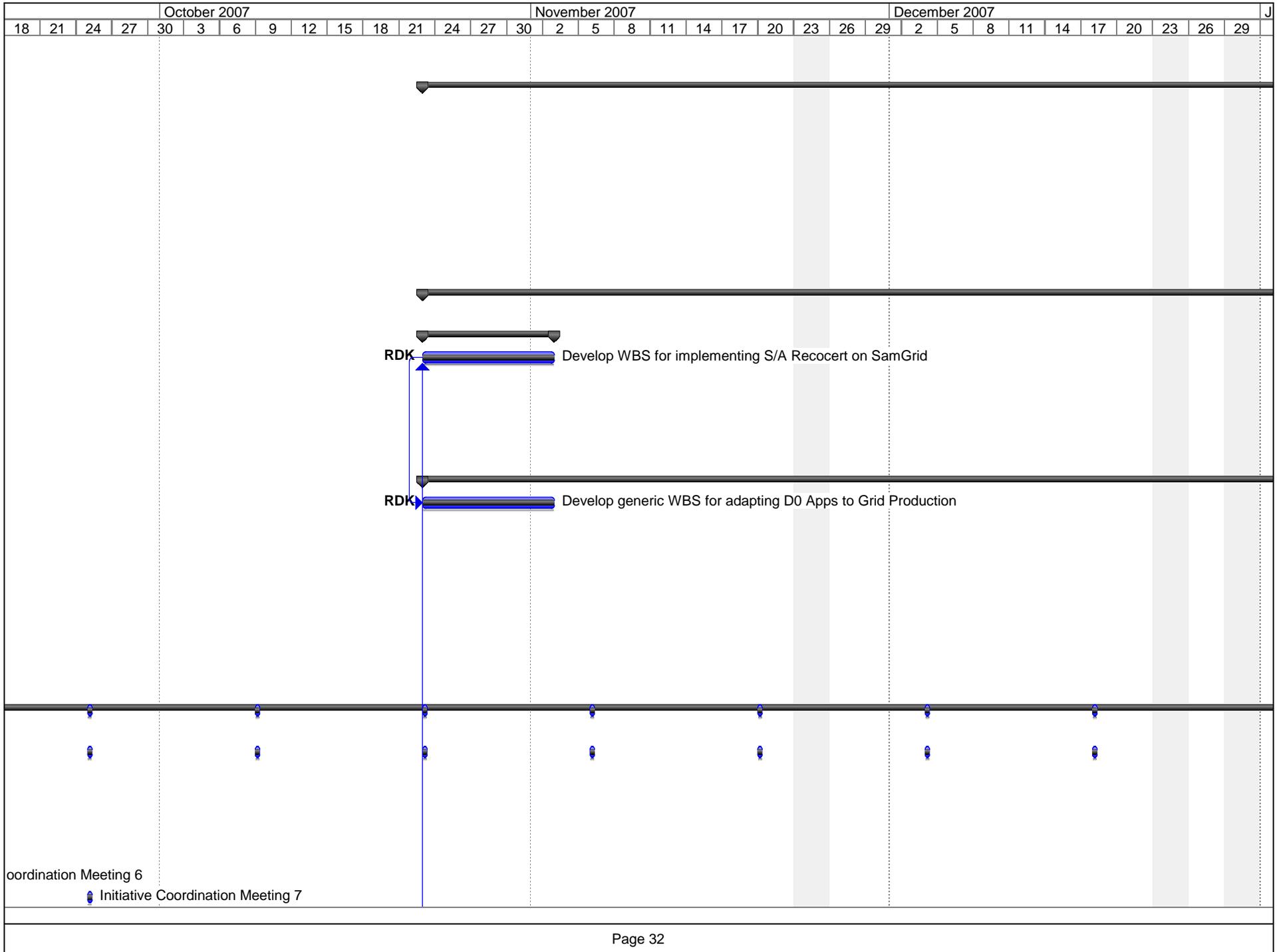


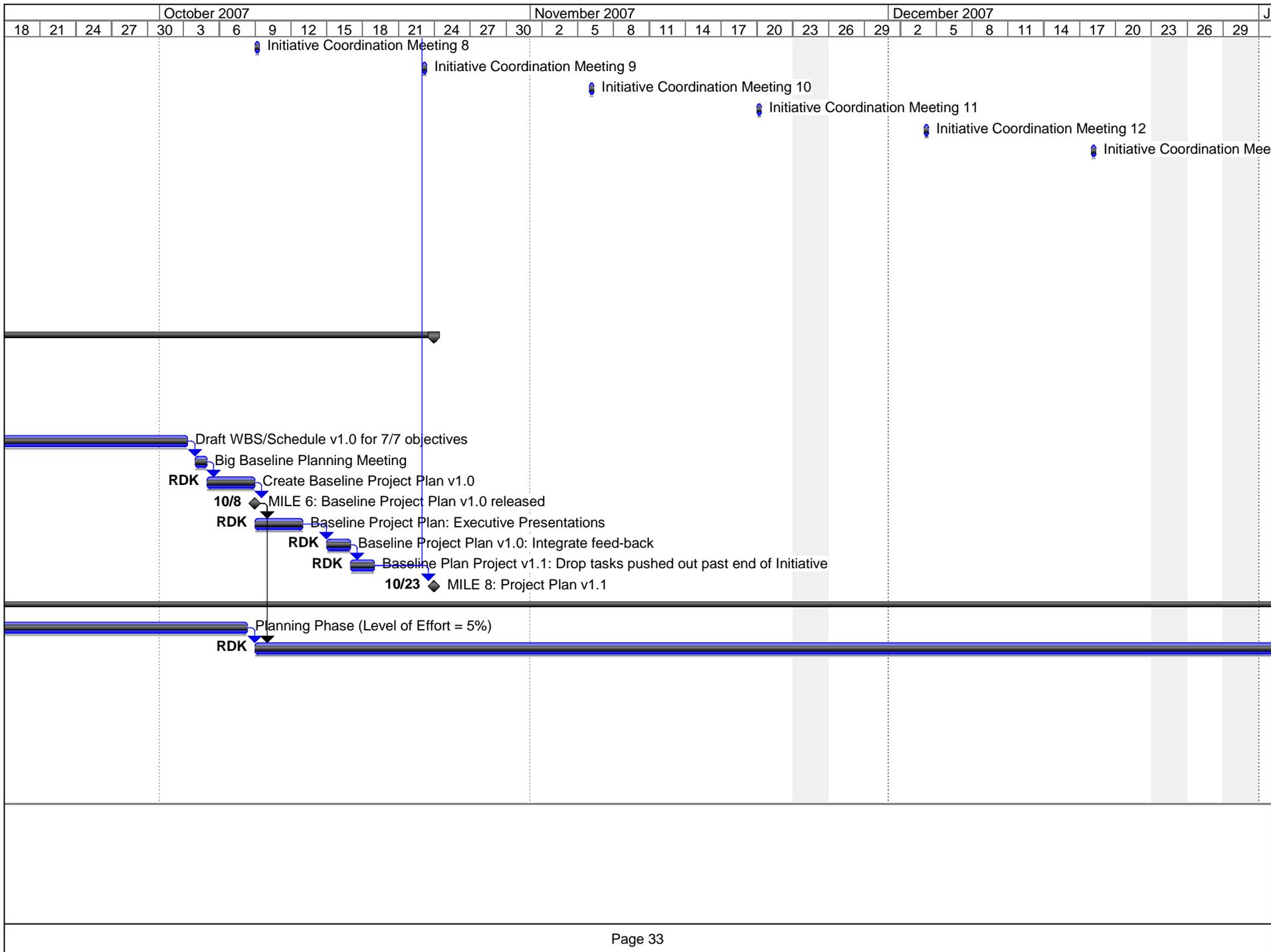


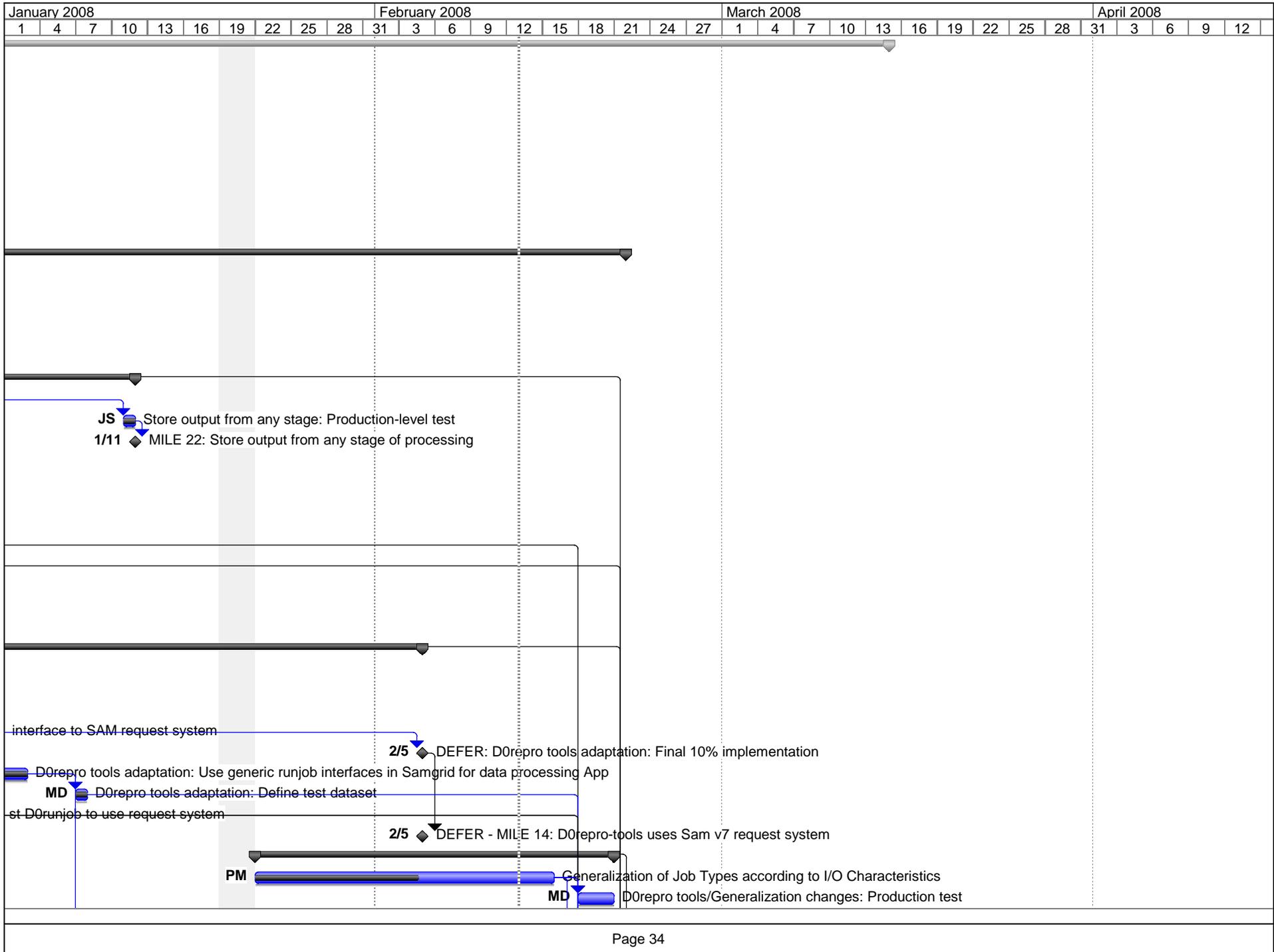


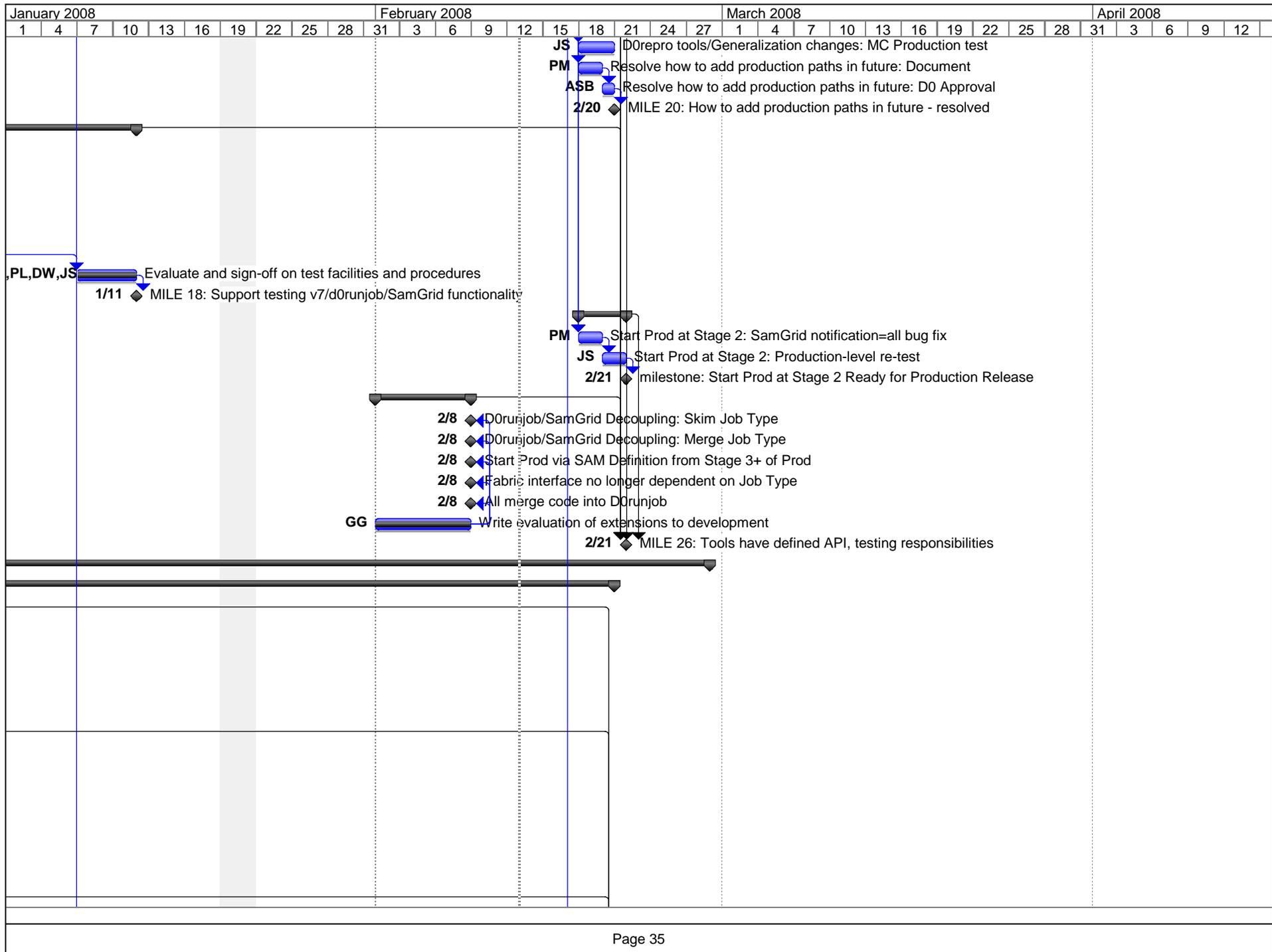


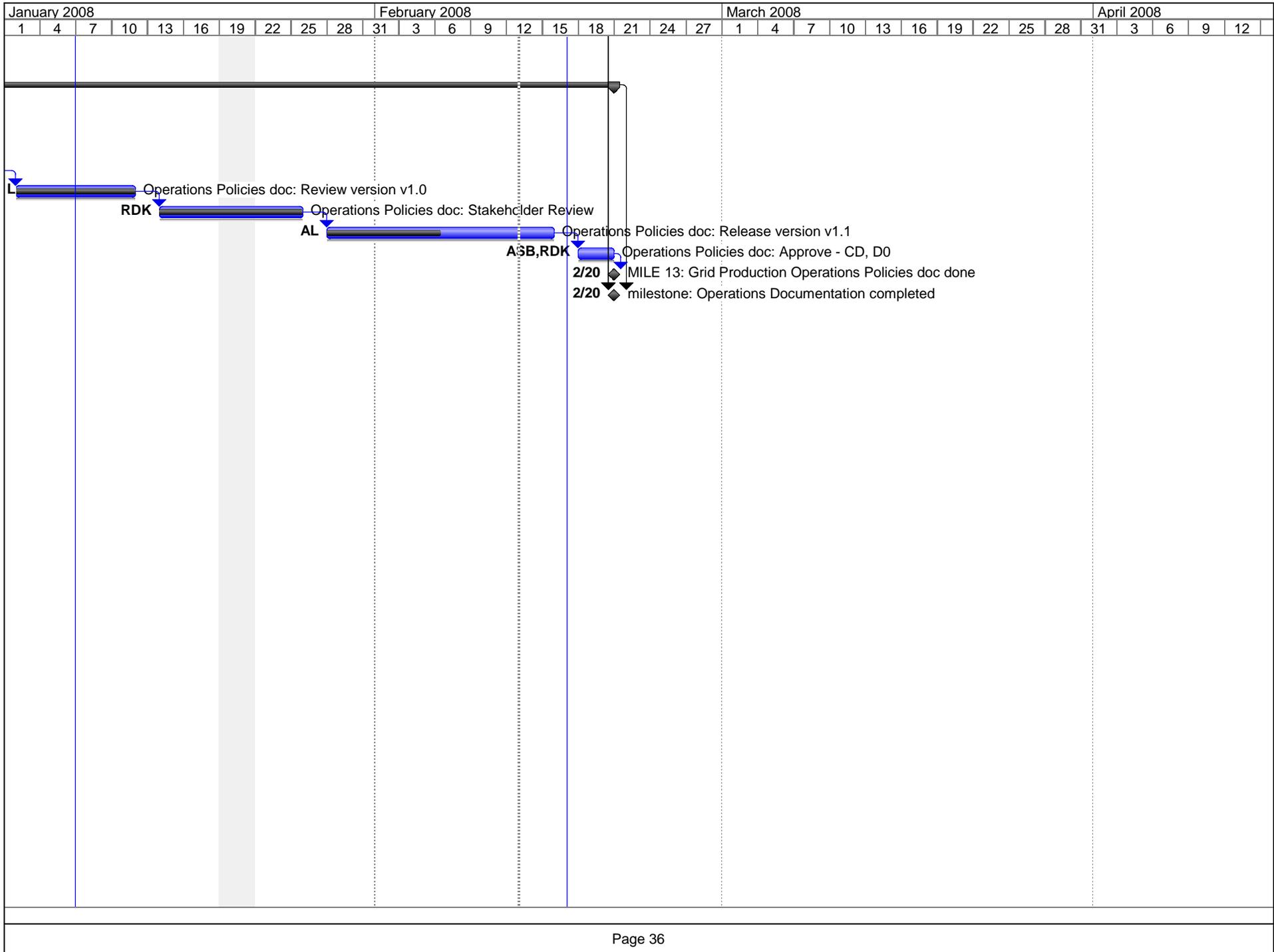


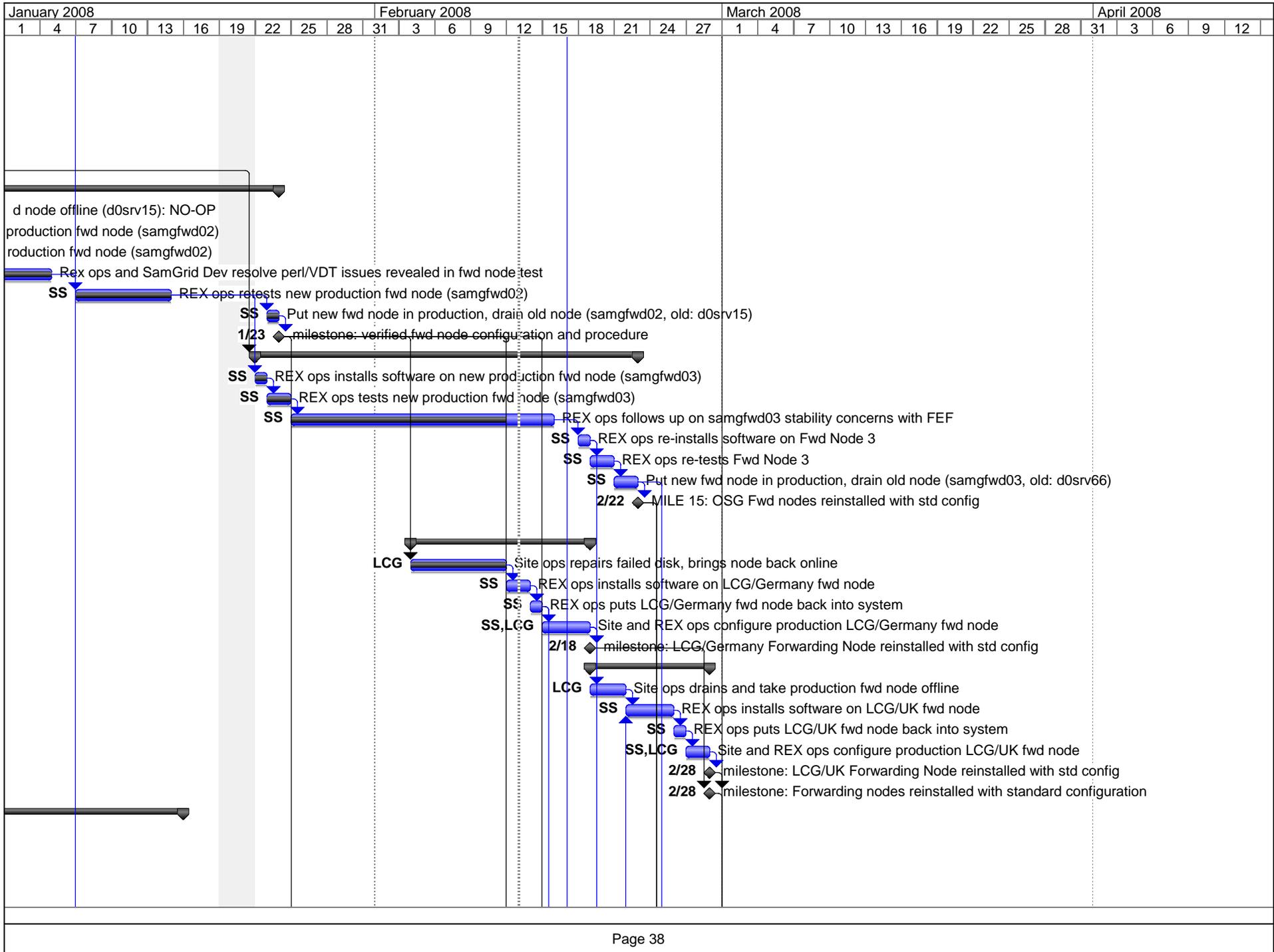


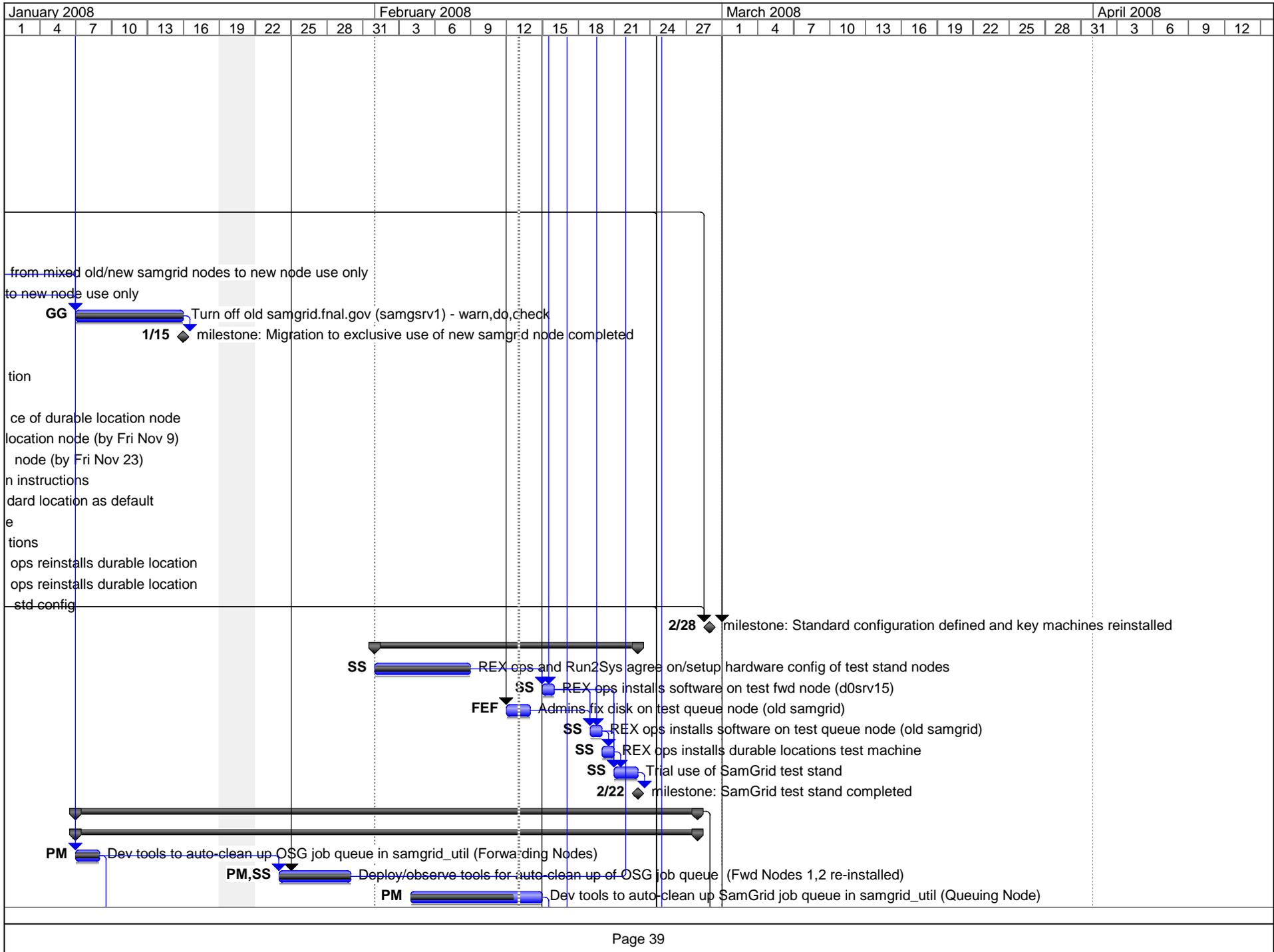




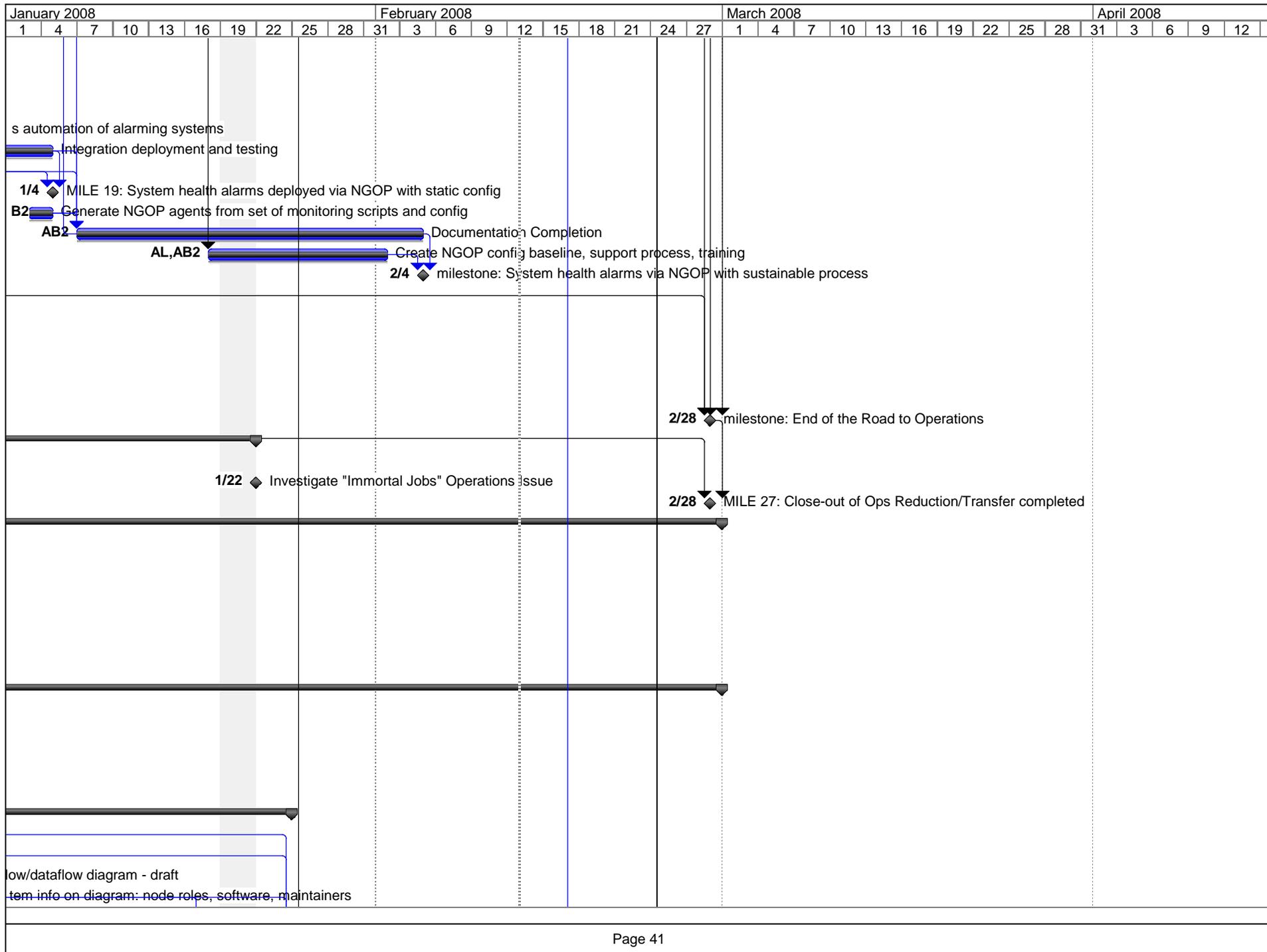


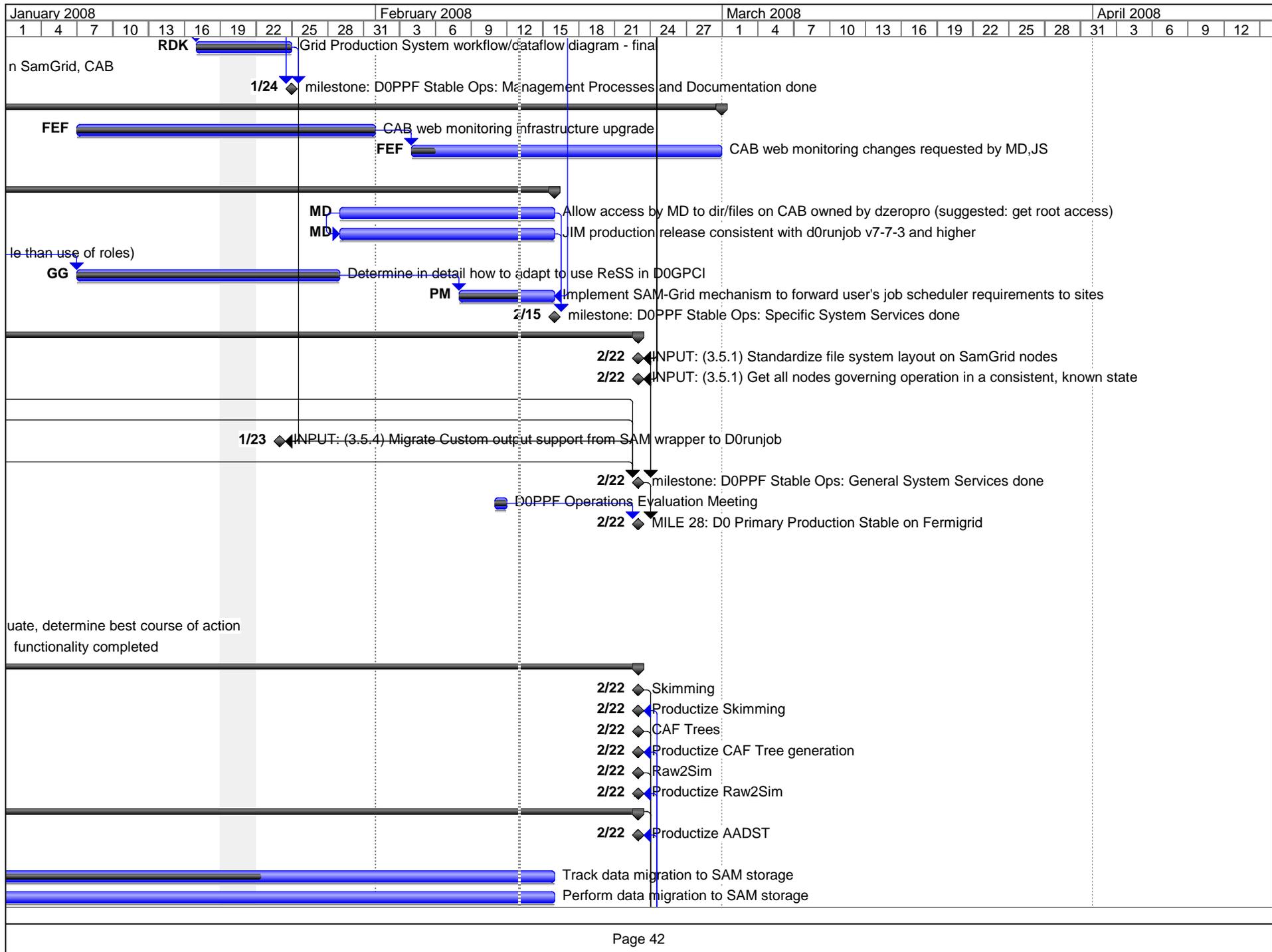


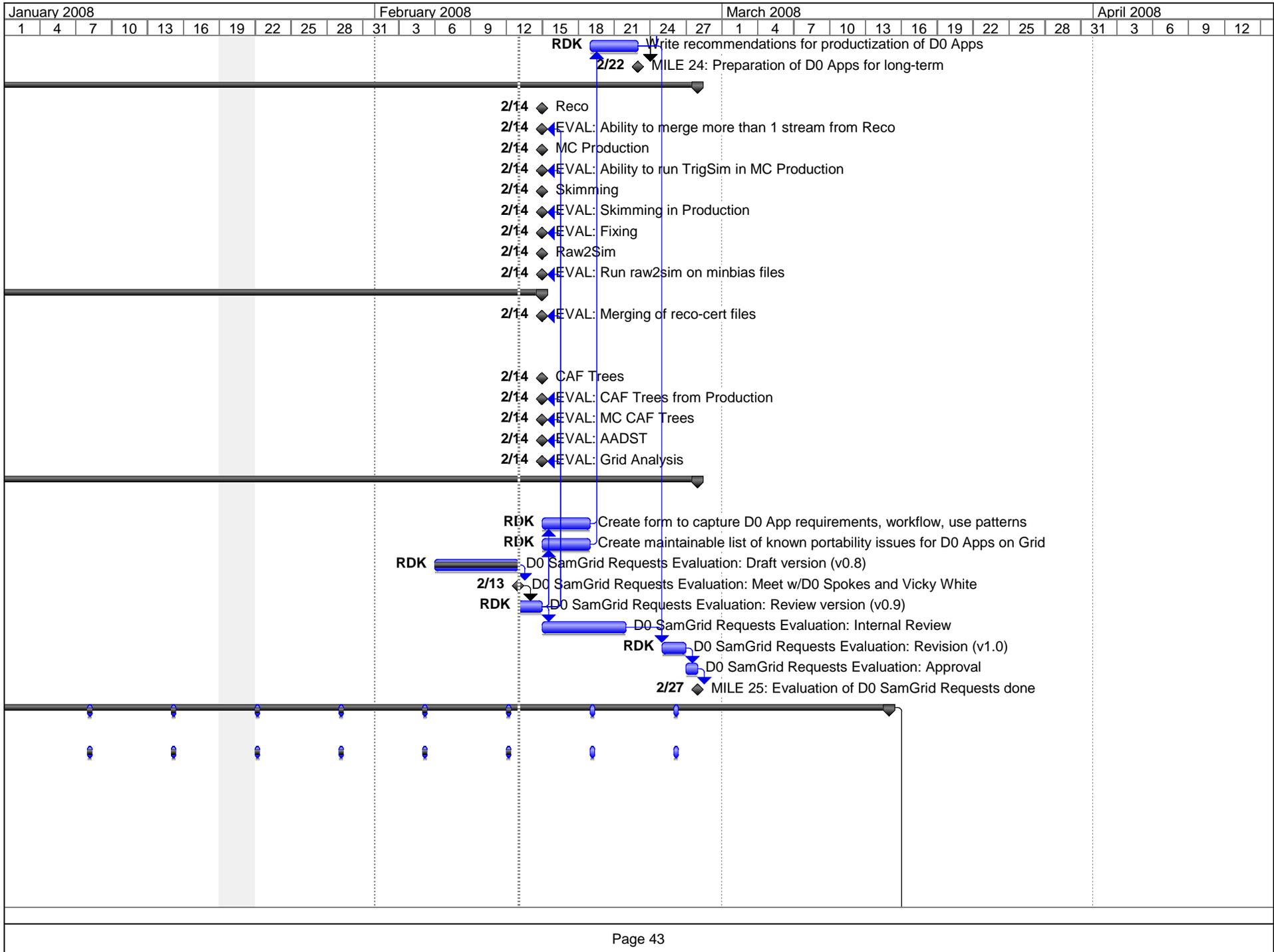


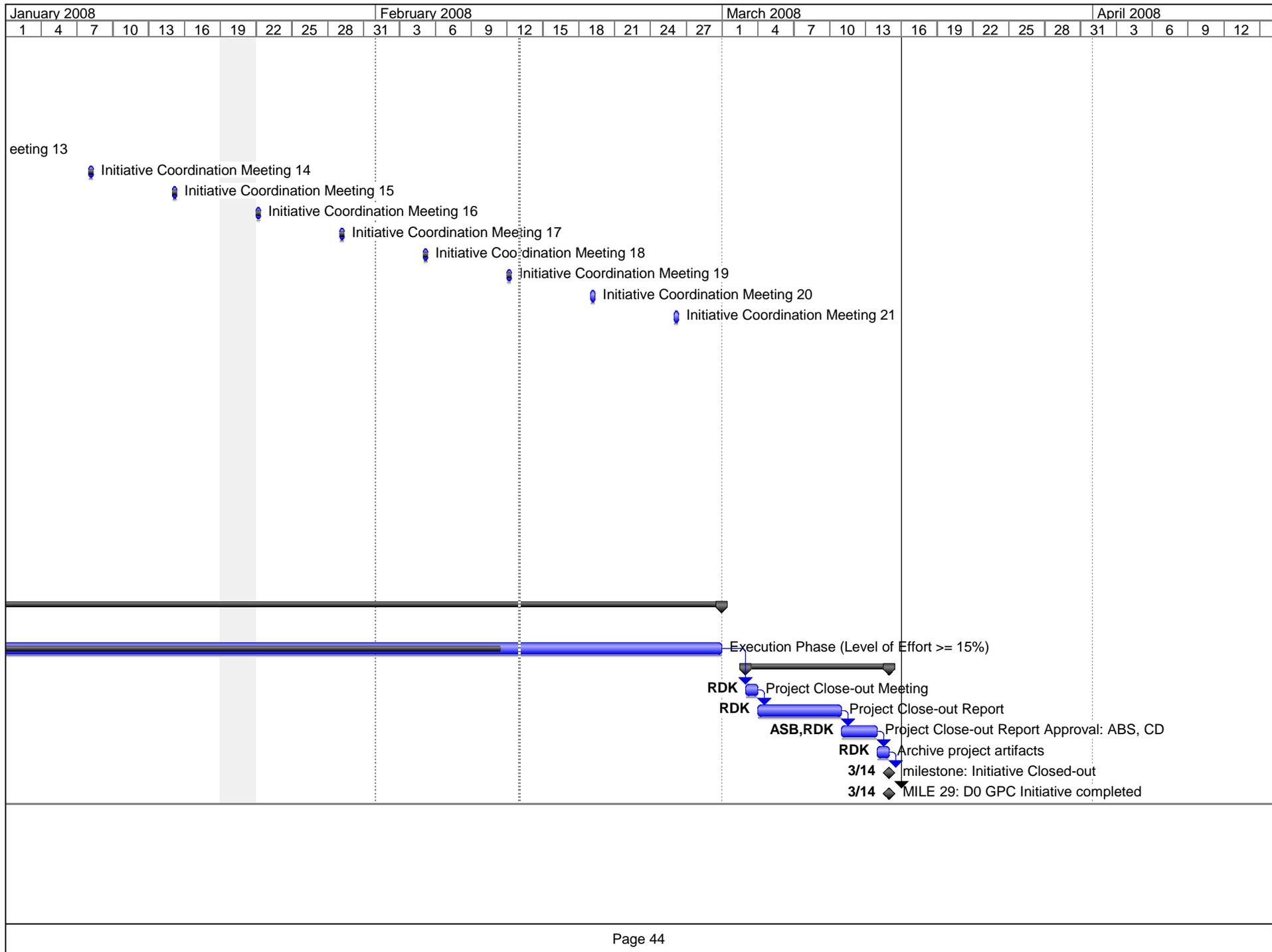












Project: D0 Grid Production Computin
Date: Wed 2/13/08

Task



Split



Progress



Milestone



Summary



Project Summary



External Tasks



External Milestone



Deadline

